Program Complot
(Version 2021-1)
by
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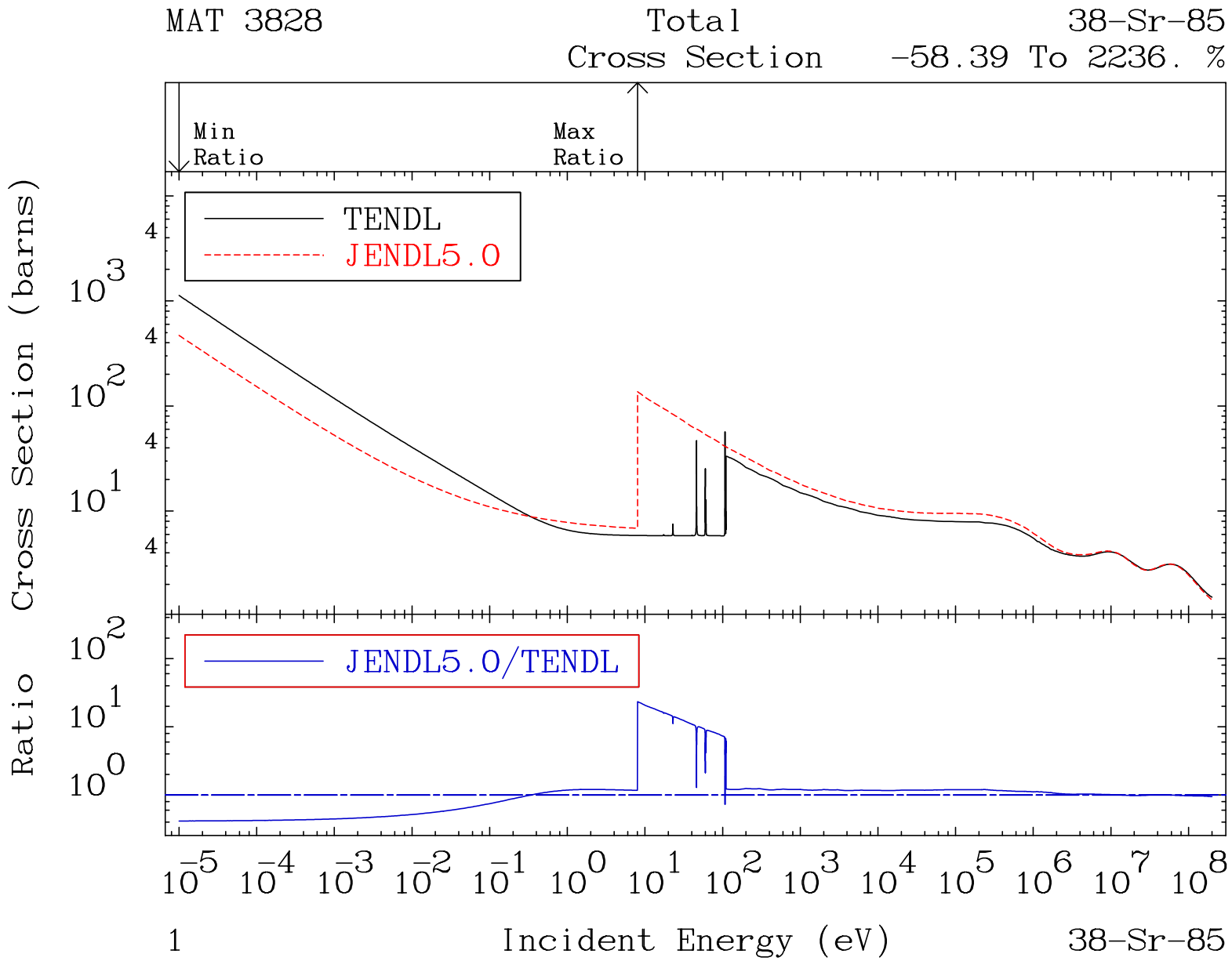
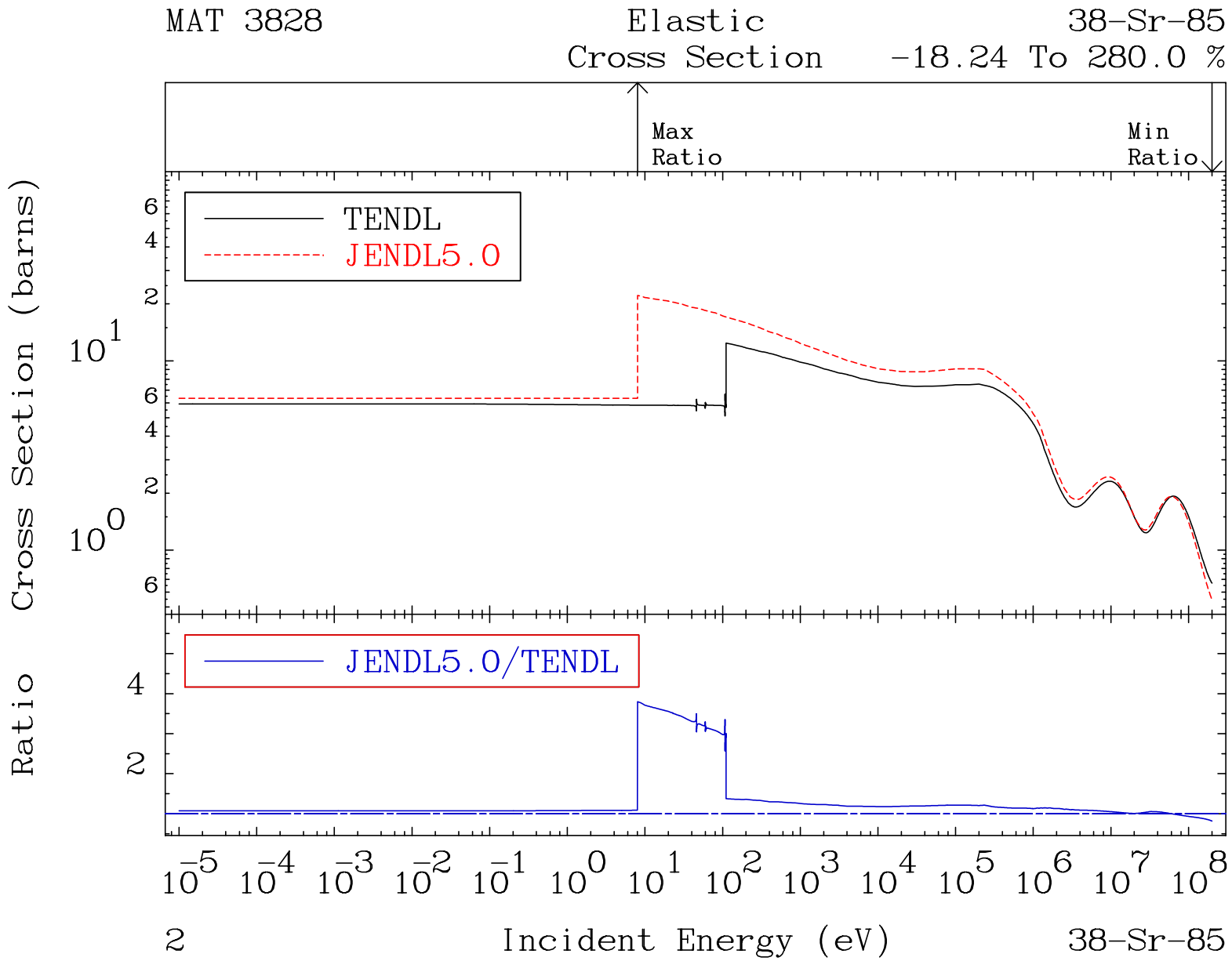
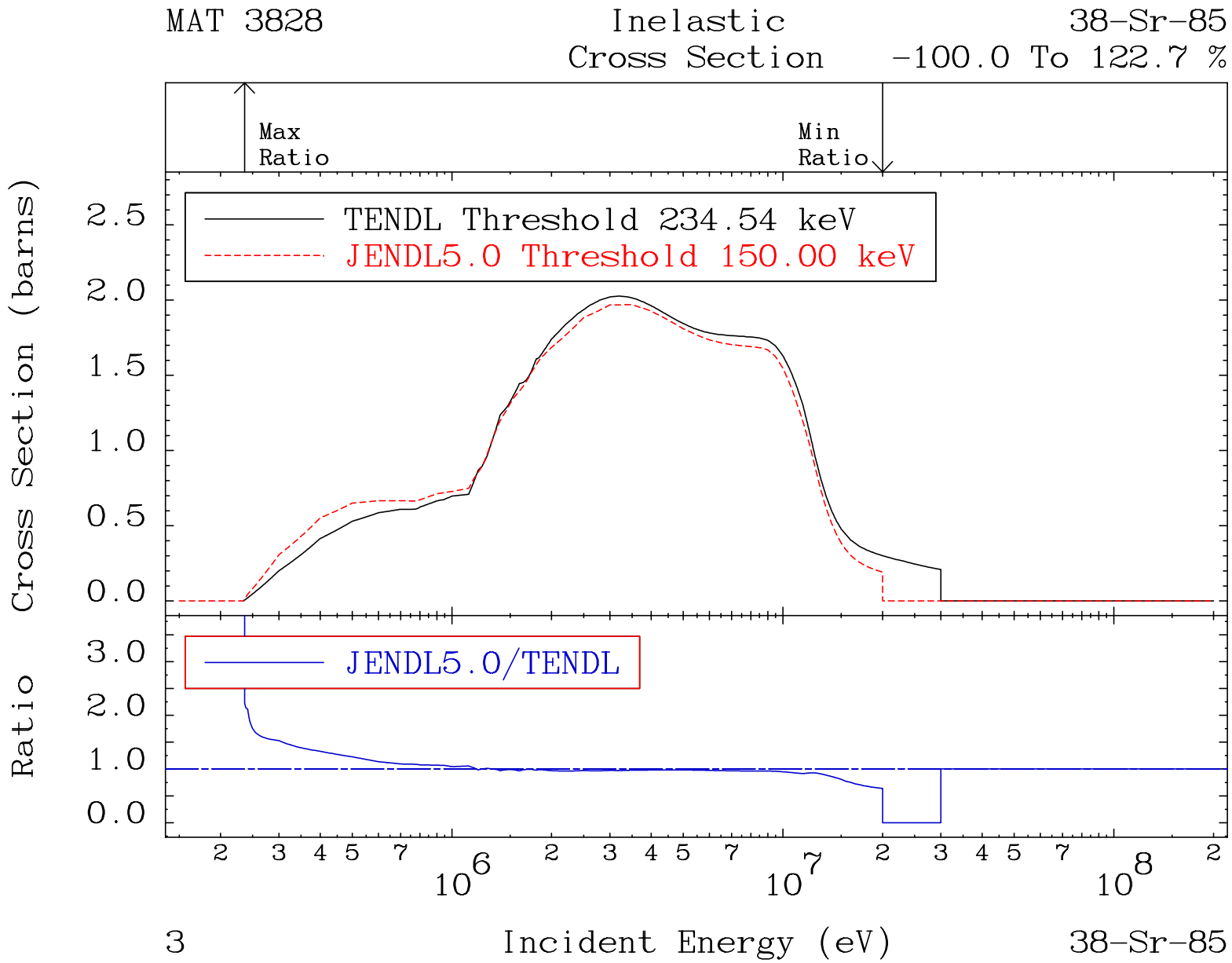
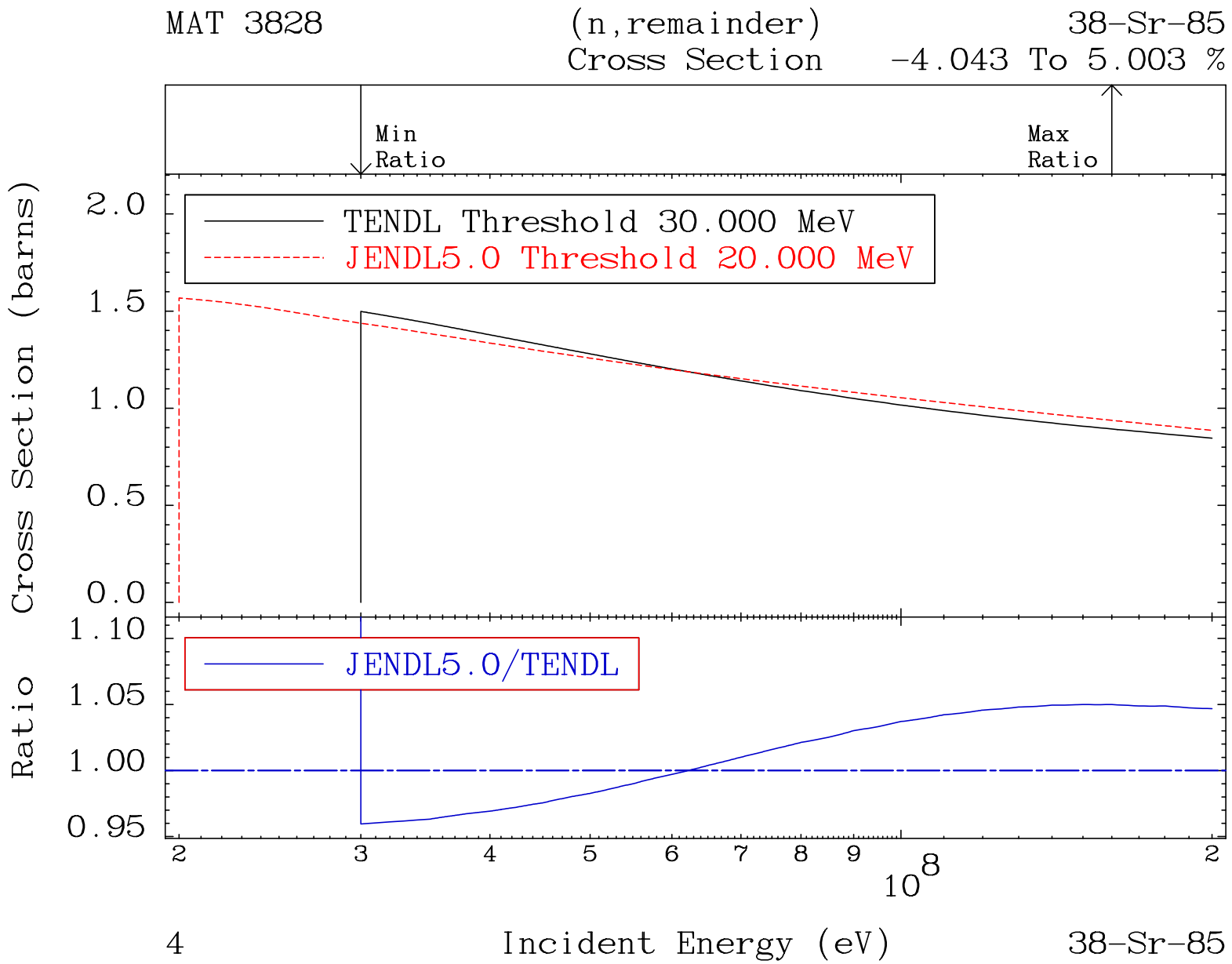
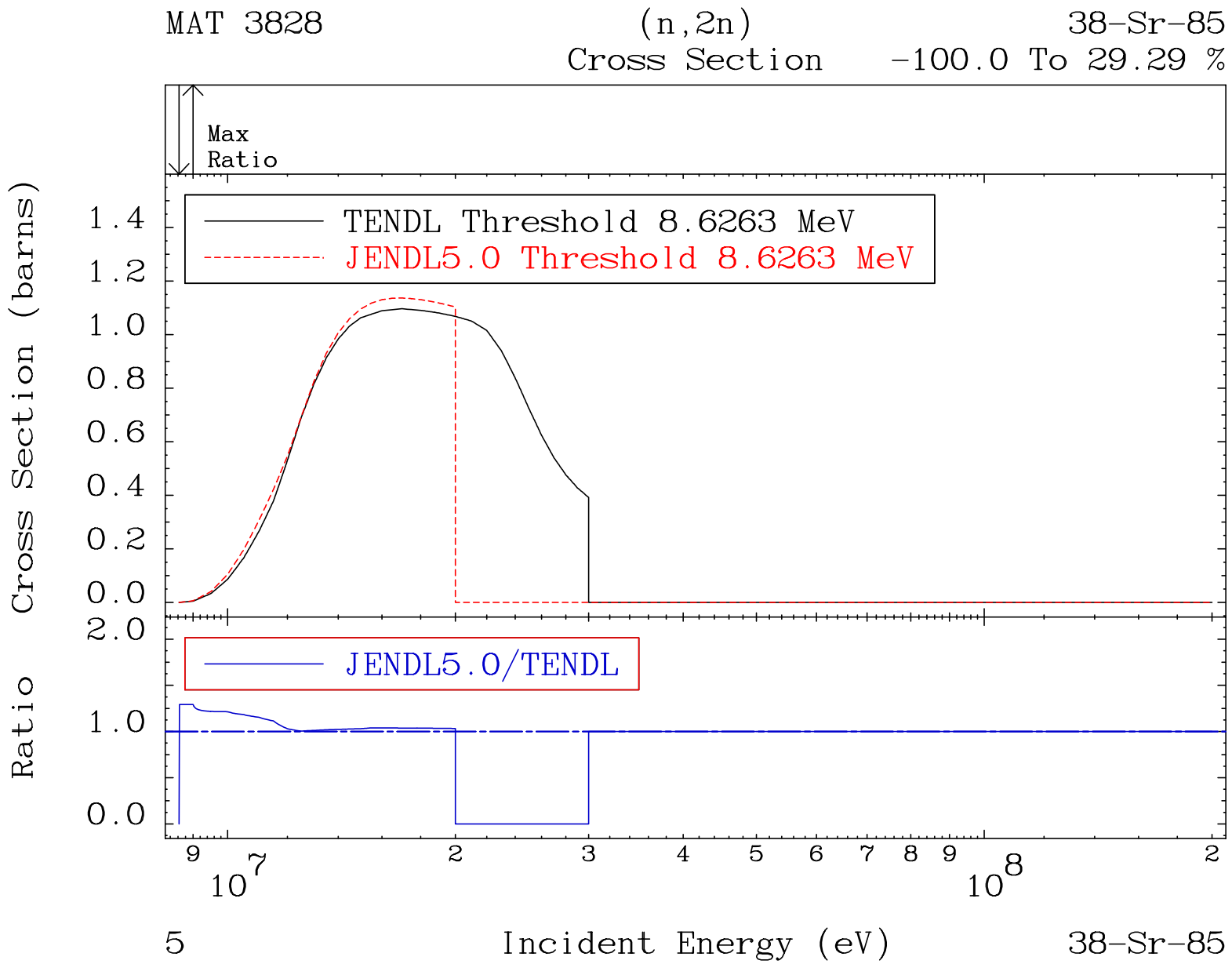
Press Mouse Button to Start

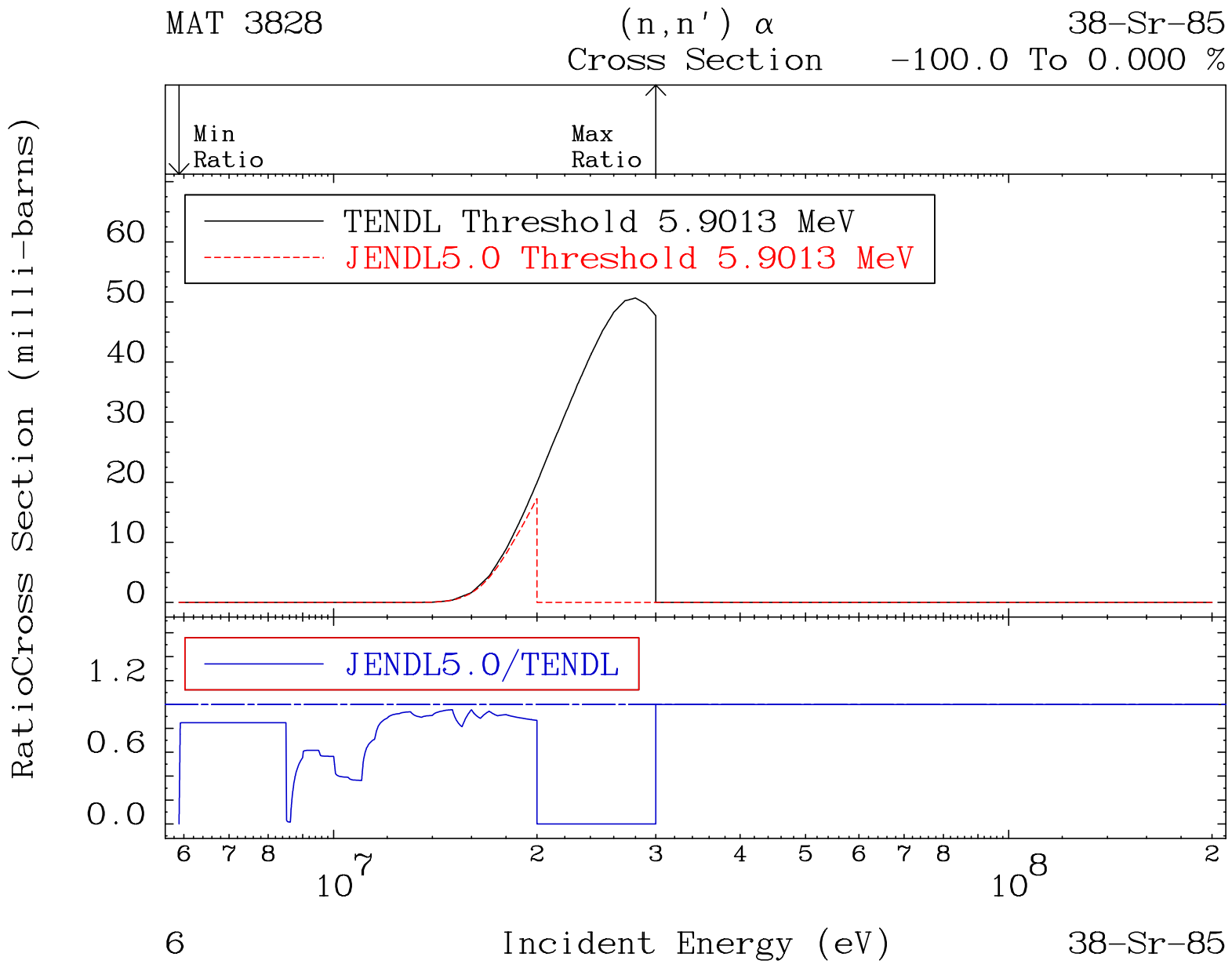

MAT 3828
Total
Cross Section
38-Sr-85
-58.39 To 2236. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
38-Sr-85

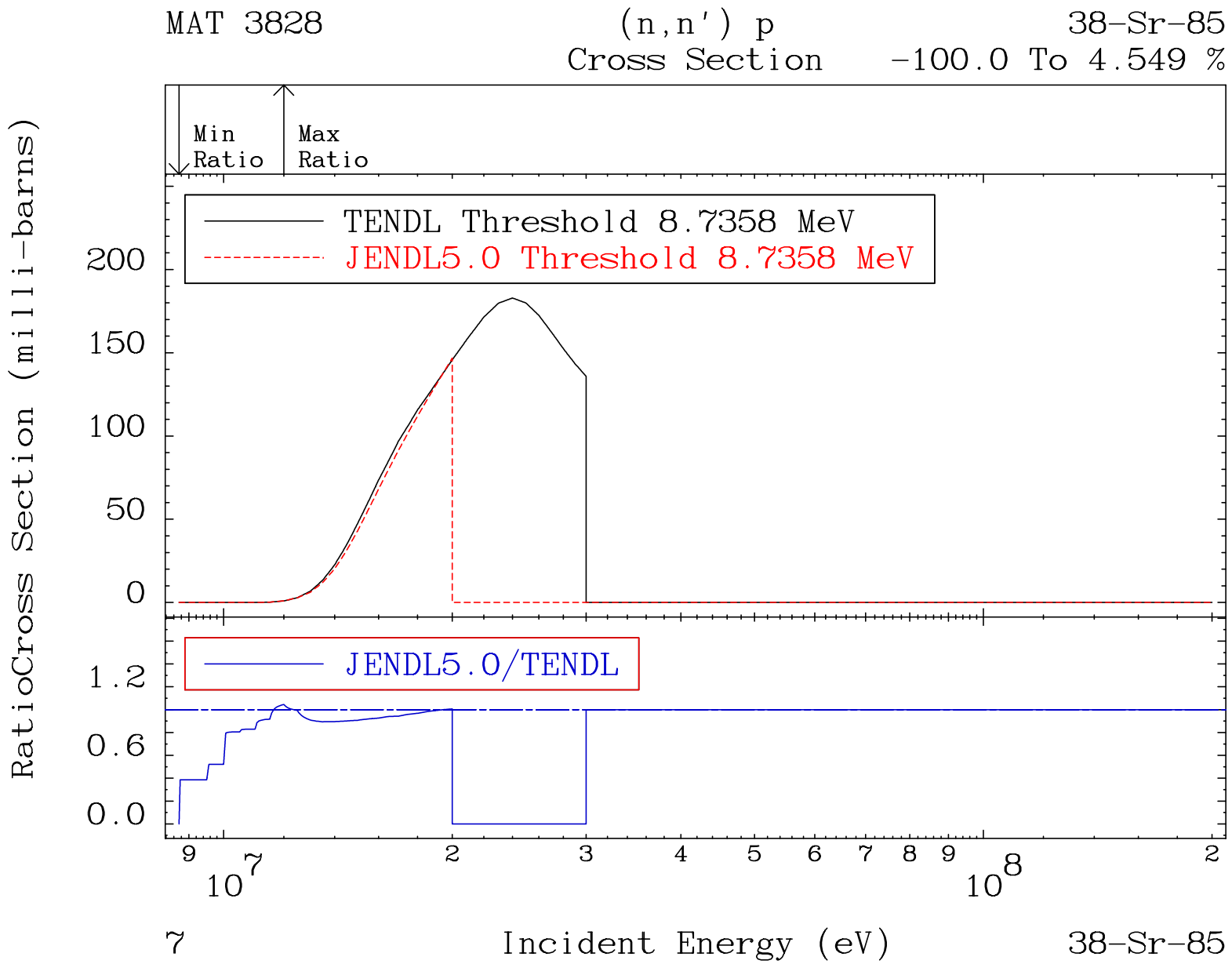

MAT 3828
Elastic
Cross Section
38-Sr-85
-18.24 To 280.0 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38-Sr-85
2

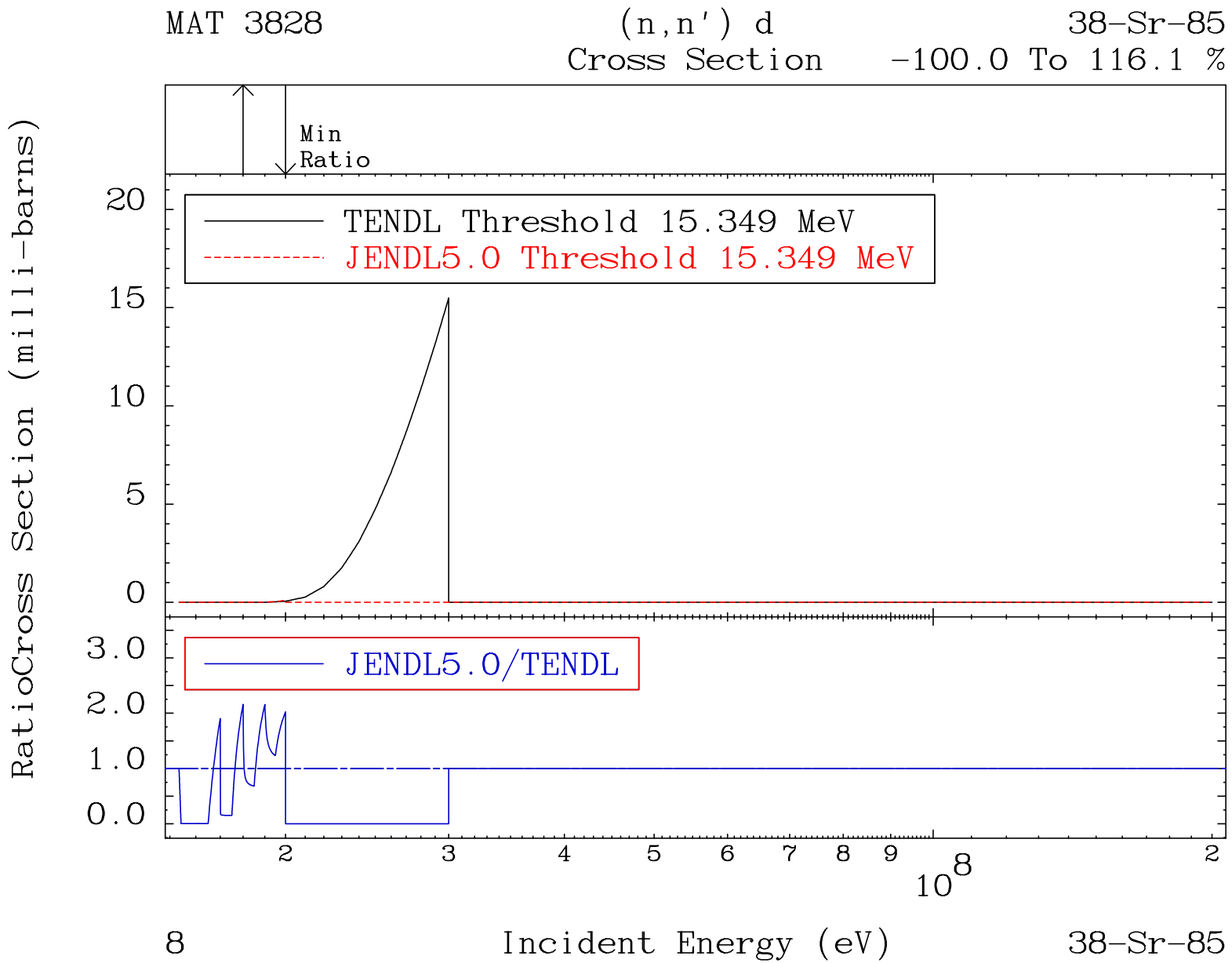

MAT 3828
Inelastic
Cross Section
38-Sr-85
-100.0 To 122.7 %
Max
Ratio
Min
Ratio
TENDL Threshold 234.54 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
3
Incident Energy (eV)
38-Sr-85

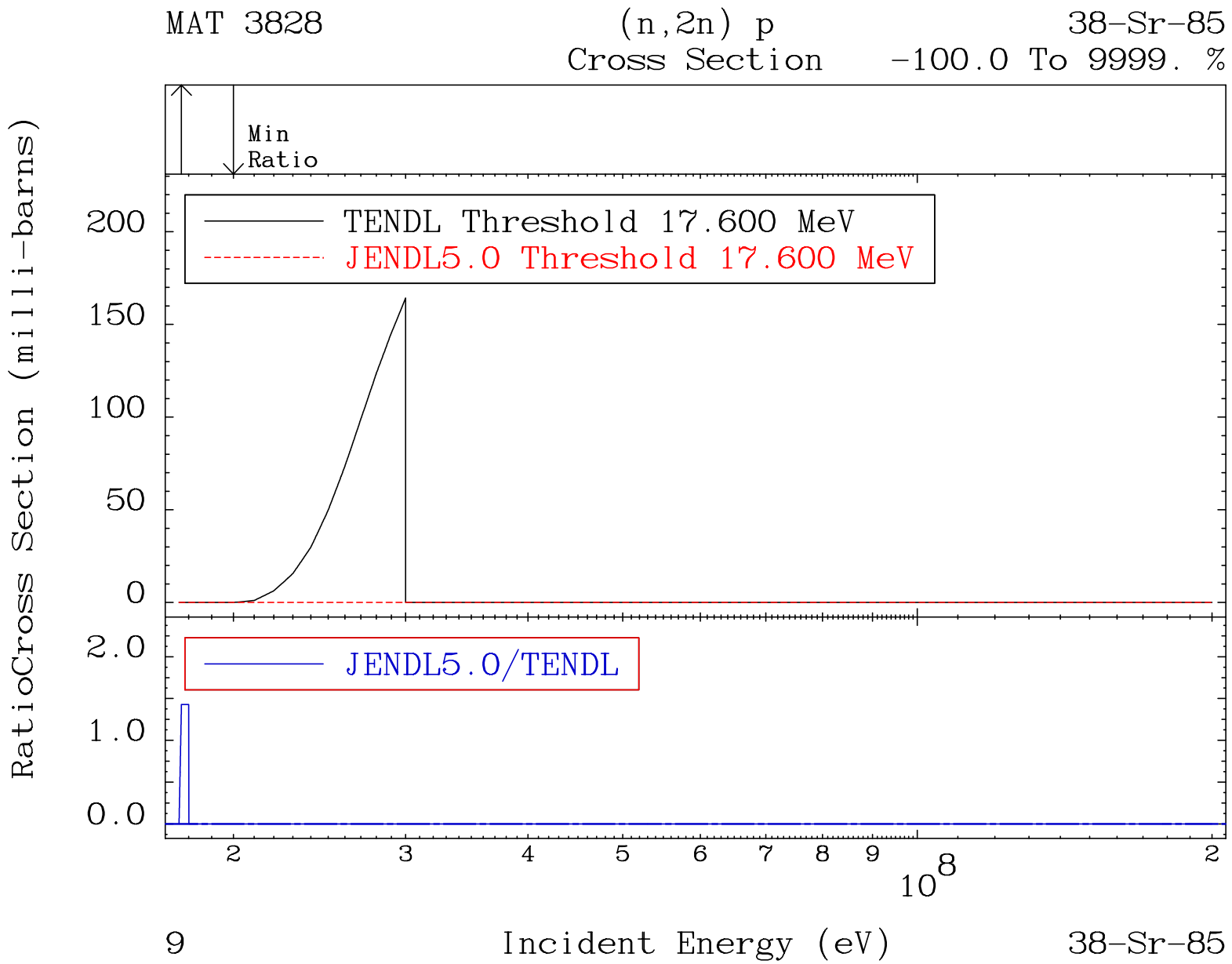

MAT 3828
(n,remainder)
Cross Section
38-Sr-85
-4.043 To 5.003 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
38-Sr-85

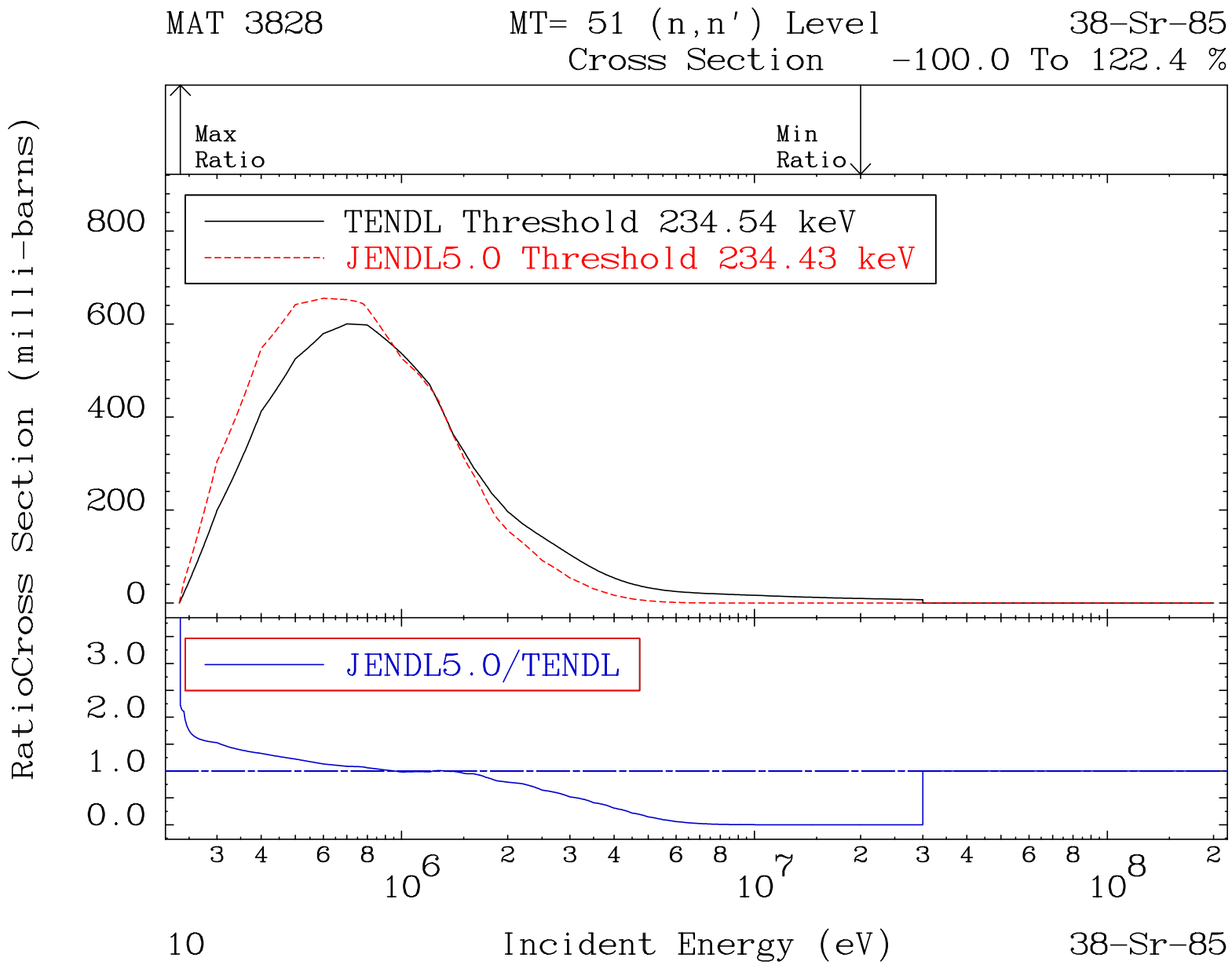

MAT 3828
(n,2n)
Cross Section
38-Sr-85
-100.0 To 29.29 %
Max
Ratio
TENDL Threshold 8.6263 MeV
JENDL5.0 Threshold 8.6263 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
5
38-Sr-85

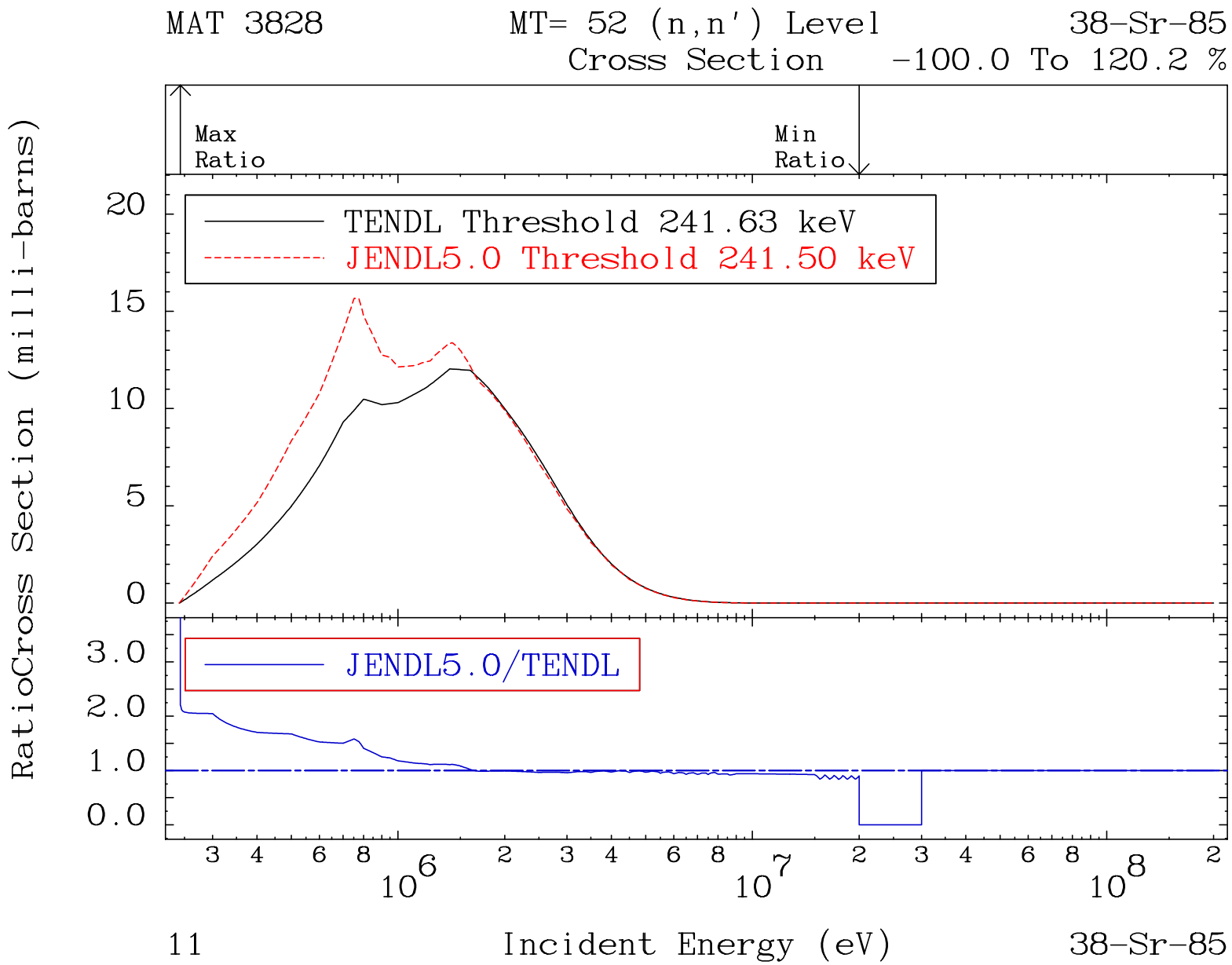

MAT 3828
(n,n') α
Cross Section
38-Sr-85
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 5.9013 MeV
JENDL5.0 Threshold 5.9013 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.6
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
6
Incident Energy (eV)
38-Sr-85

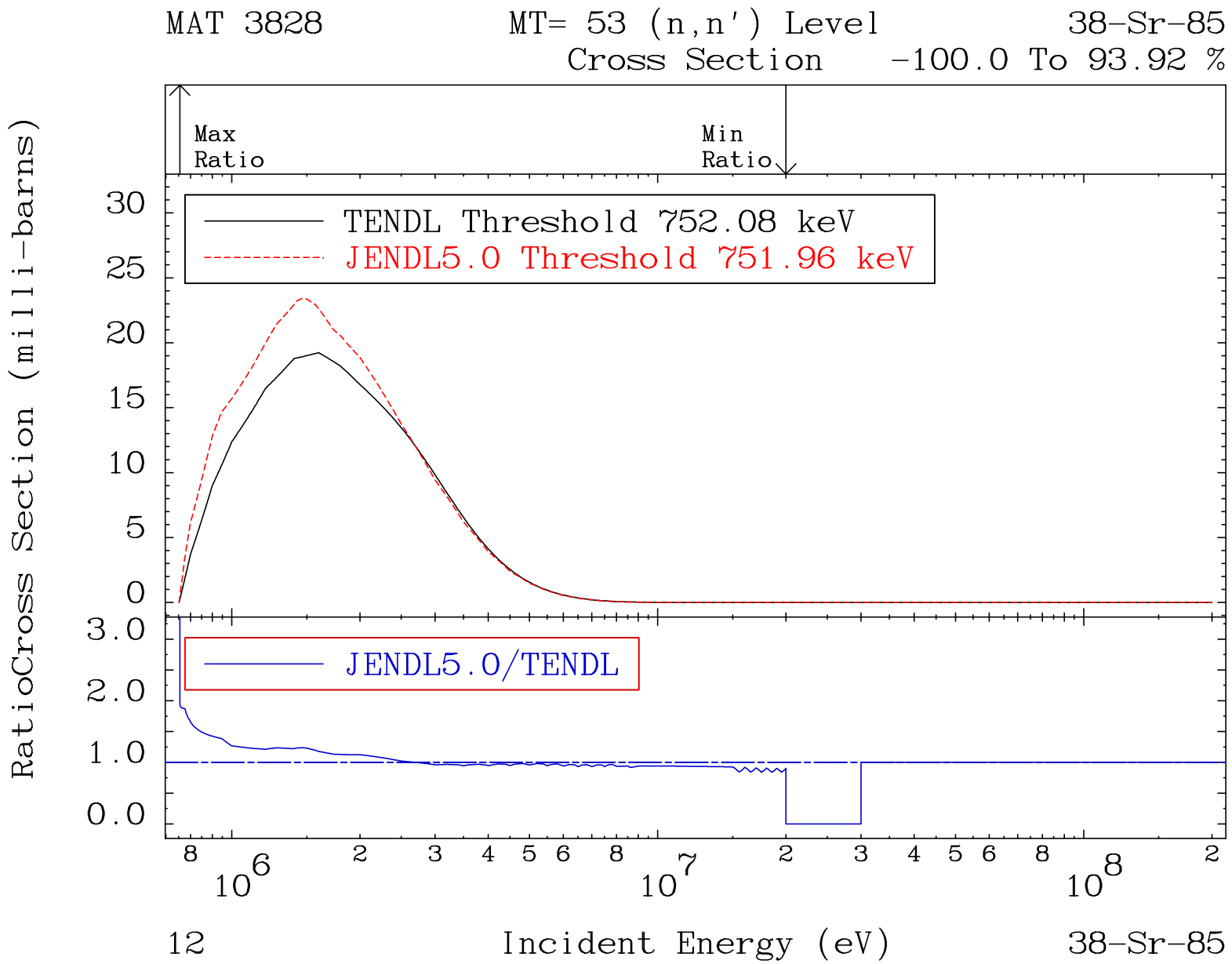

MAT 3828
(n,n') p
Cross Section
38-Sr-85
-100.0 To 4.549 %
Min Ratio
Max Ratio
TENDL Threshold 8.7358 MeV
JENDL5.0 Threshold 8.7358 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
38-Sr-85

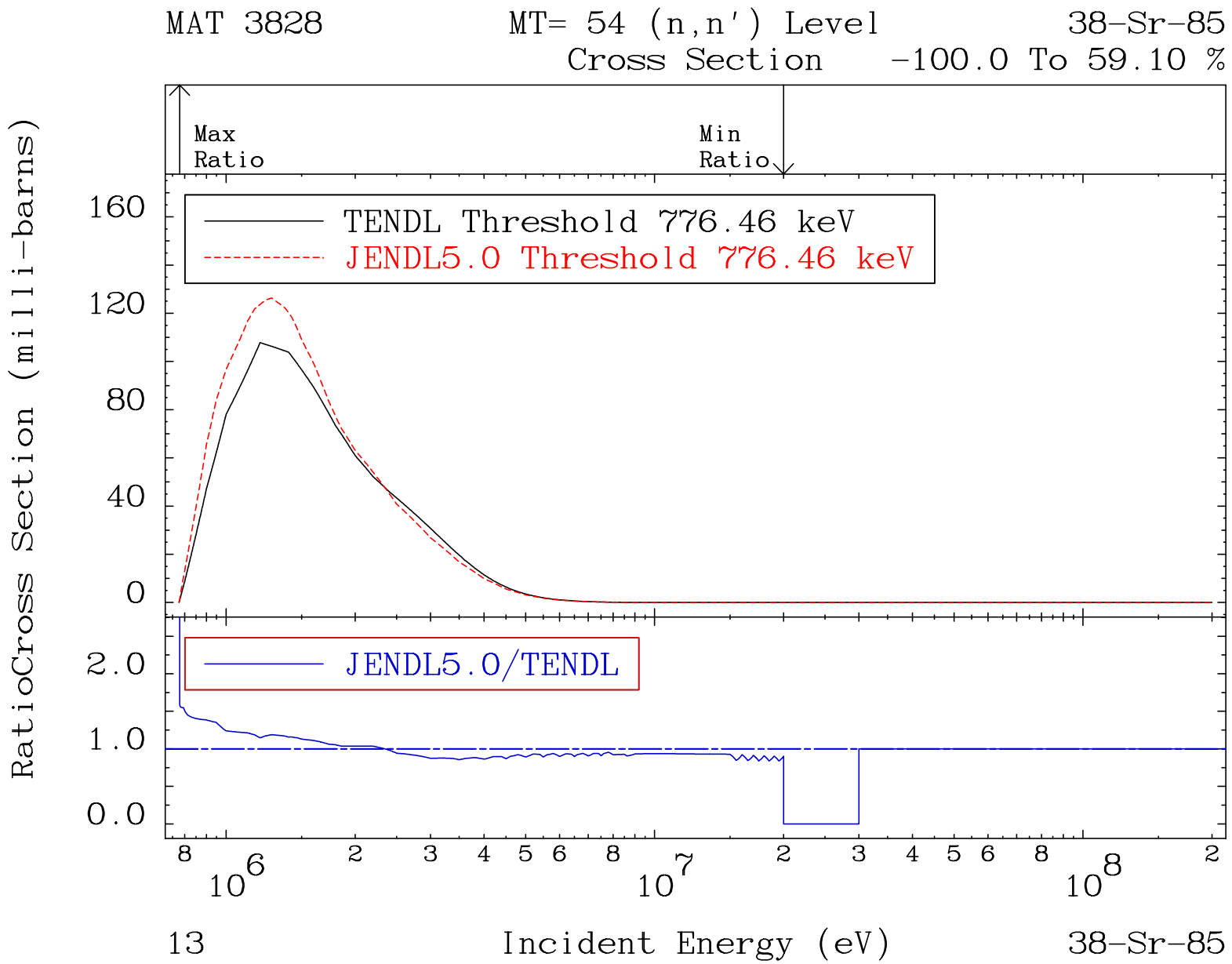

MAT 3828
(n,n') d
Cross Section
38-Sr-85
-100.0 To 116.1 %
Min
Ratio
TENDL Threshold 15.349 MeV
JENDL5.0 Threshold 15.349 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
38-Sr-85

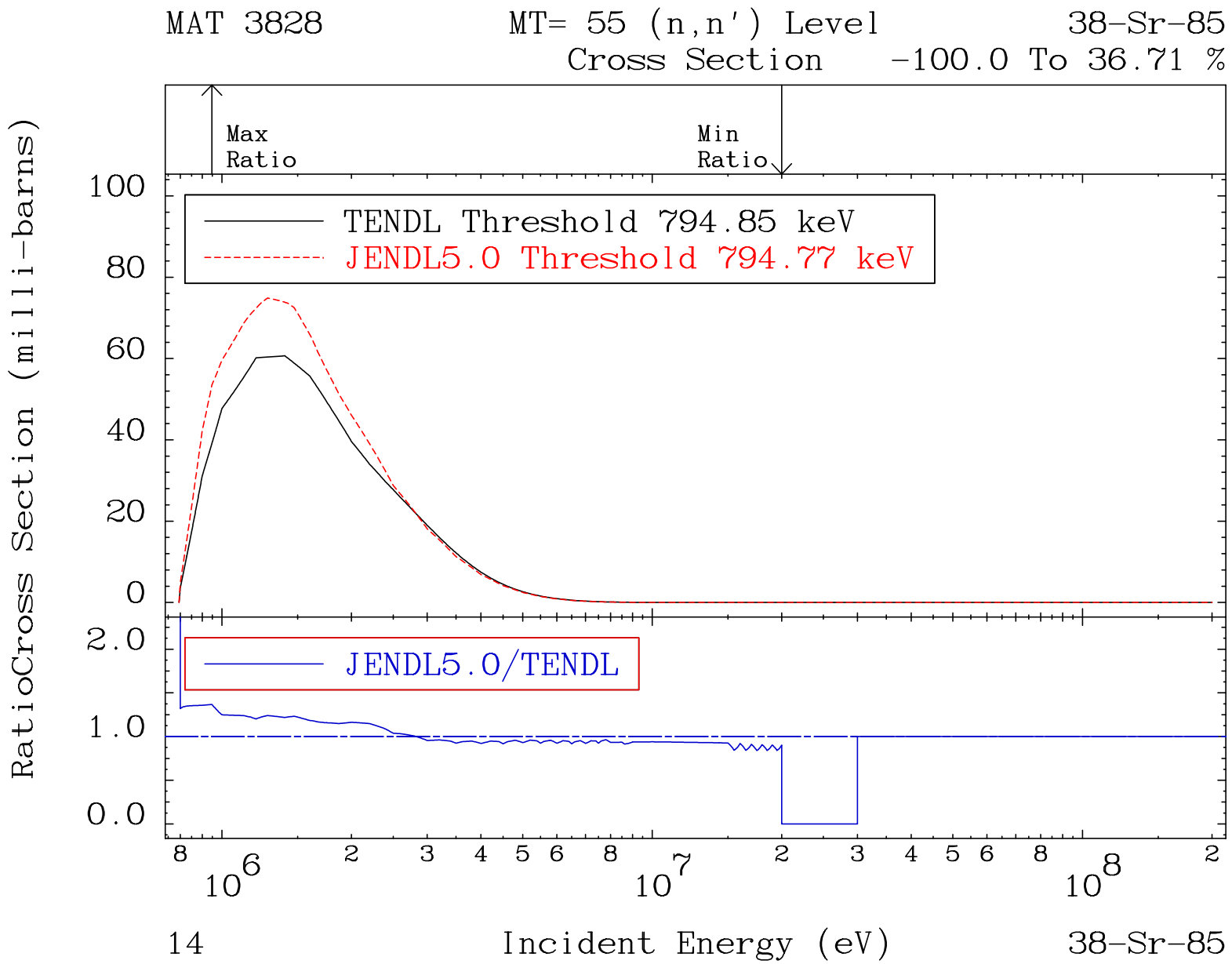

MAT 3828
(n,2n) p
38-Sr-85
Cross Section
-100.0 To 9999. %
Min
Ratio
TENDL Threshold 17.600 MeV
JENDL5.0 Threshold 17.600 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
38-Sr-85

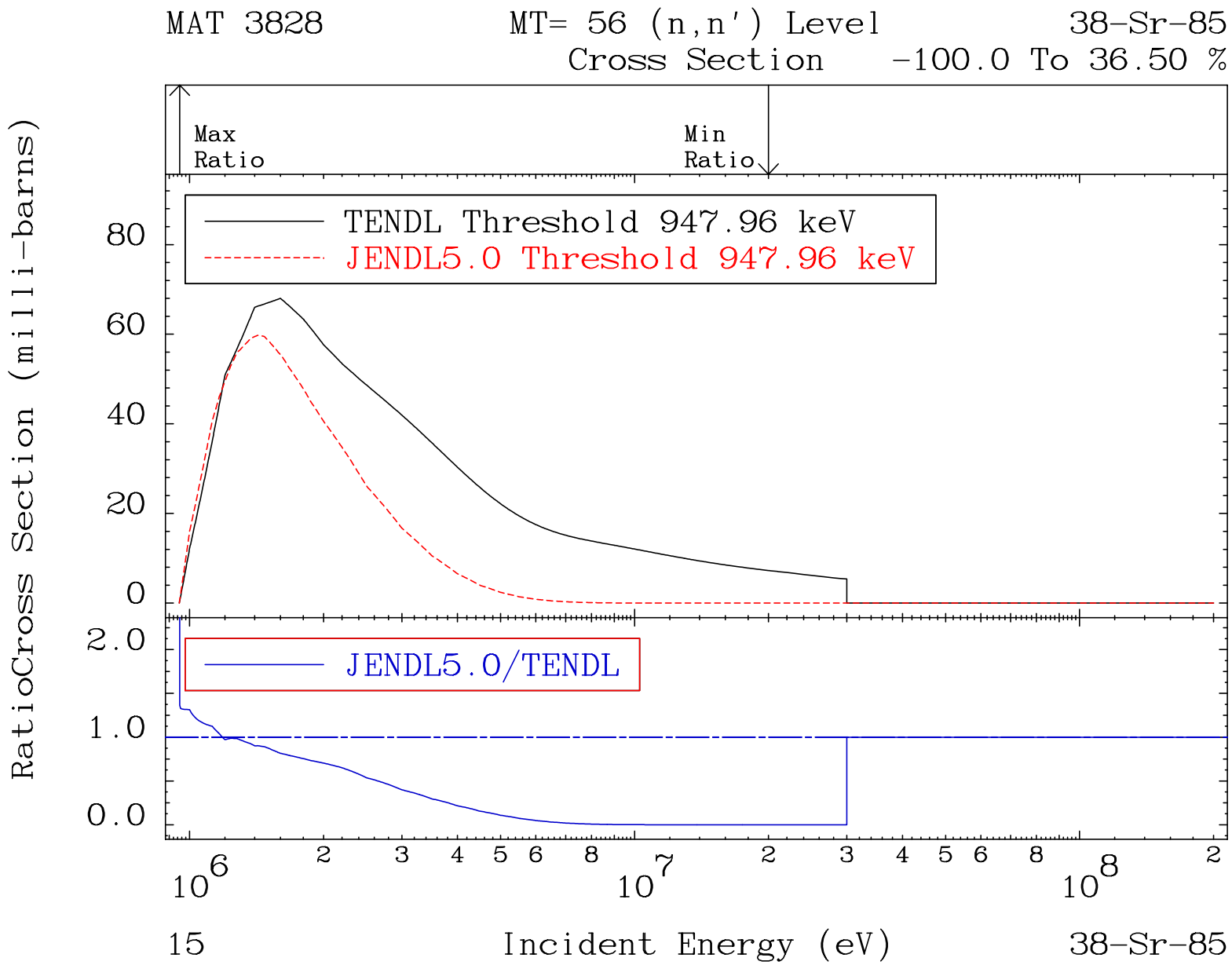

MAT 3828
MT= 51 (n,n') Level
38-Sr-85
Cross Section
-100.0 To 122.4 %
Max Ratio
Min Ratio
TENDL Threshold 234.54 keV
JENDL5.0 Threshold 234.43 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
3.0
2.0
1.0
0.0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
10
Incident Energy (eV)
38-Sr-85

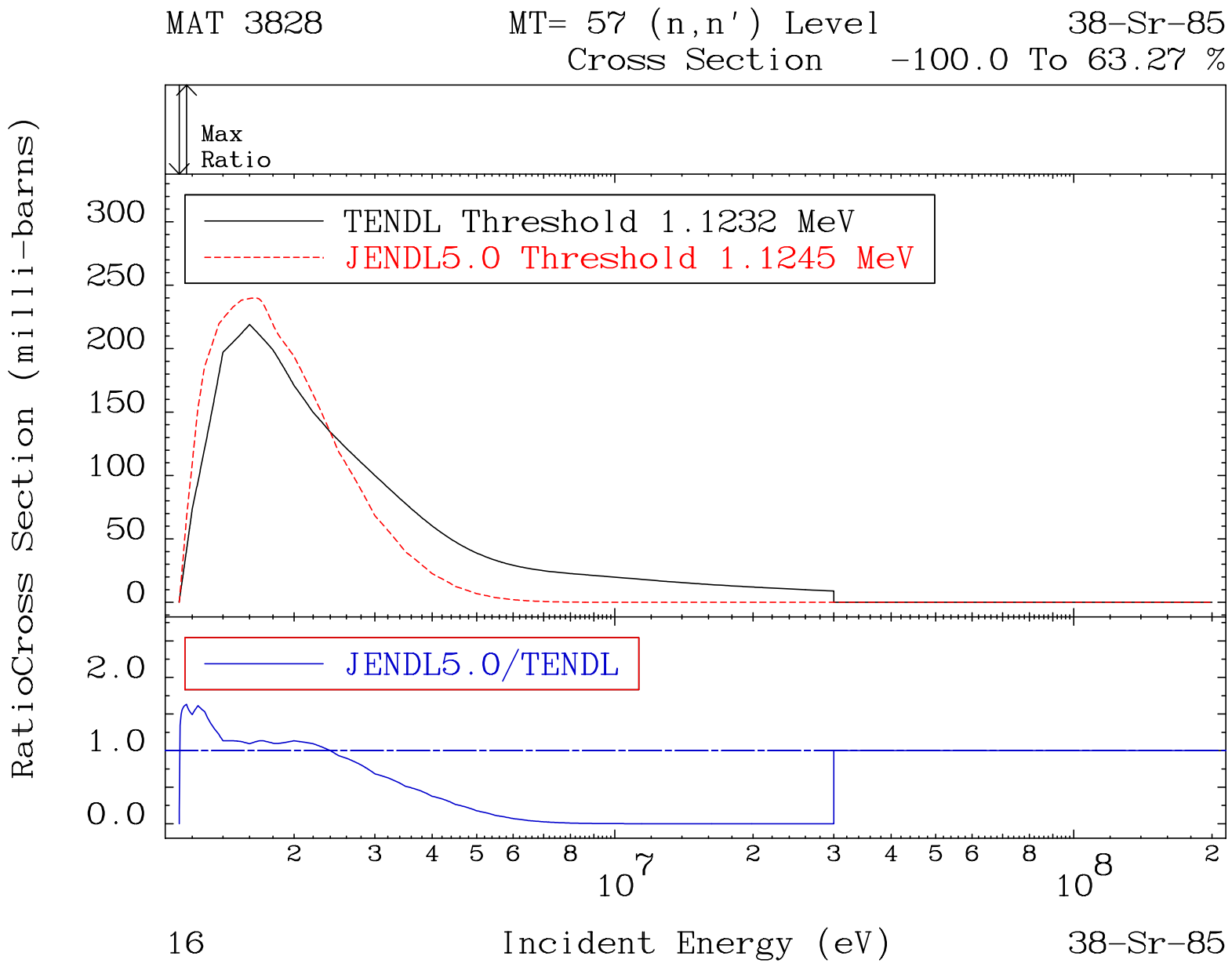

MAT 3828
MT= 52 (n,n') Level
Cross Section
38-Sr-85
-100.0 To 120.2 %
Max Ratio
Min Ratio
TENDL Threshold 241.63 keV
JENDL5.0 Threshold 241.50 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
38-Sr-85

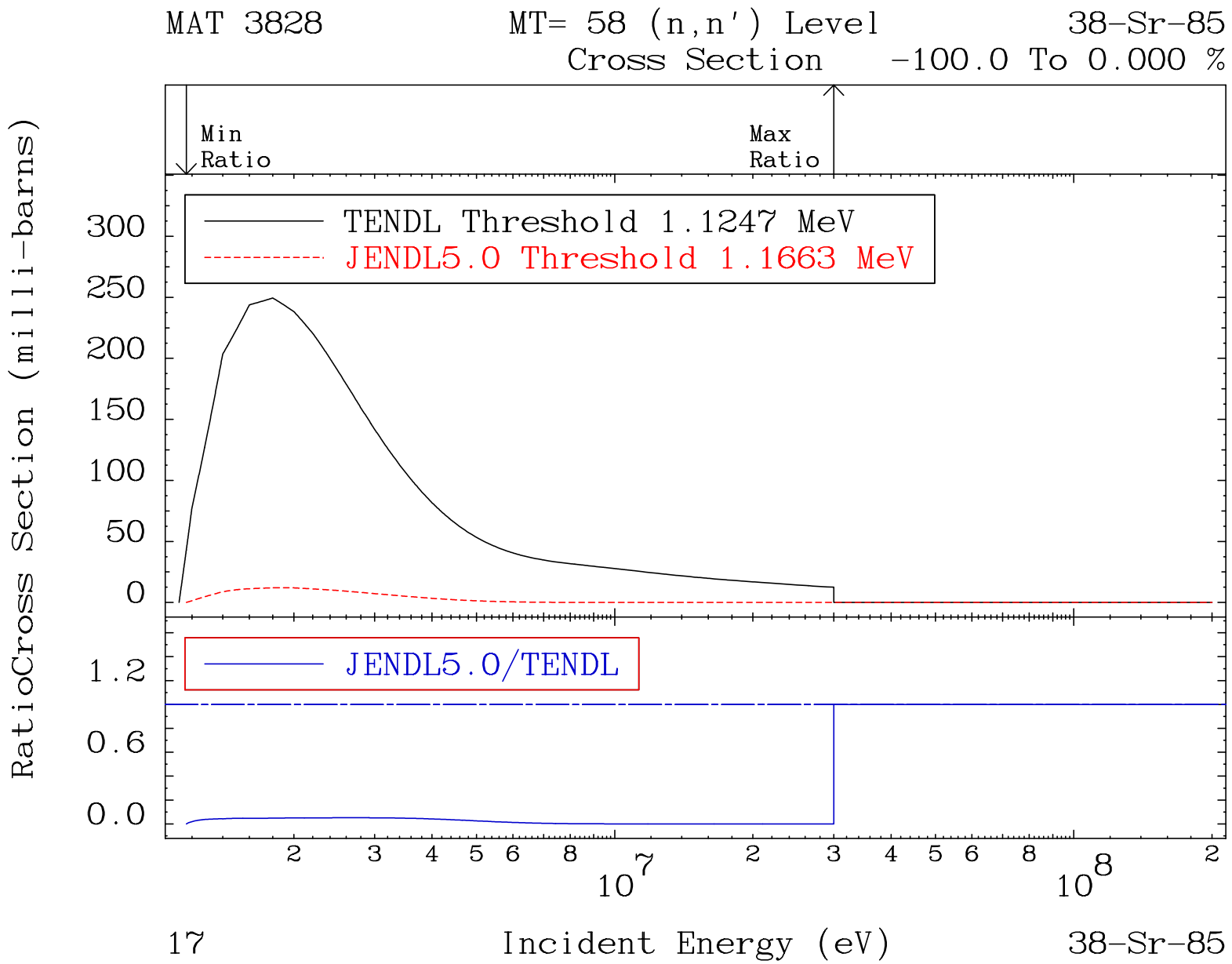

MAT 3828
MT= 53 (n,n') Level
38-Sr-85
Cross Section -100.0 To 93.92 %
Max Ratio
Min Ratio
TENDL Threshold 752.08 keV
JENDL5.0 Threshold 751.96 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
38-Sr-85

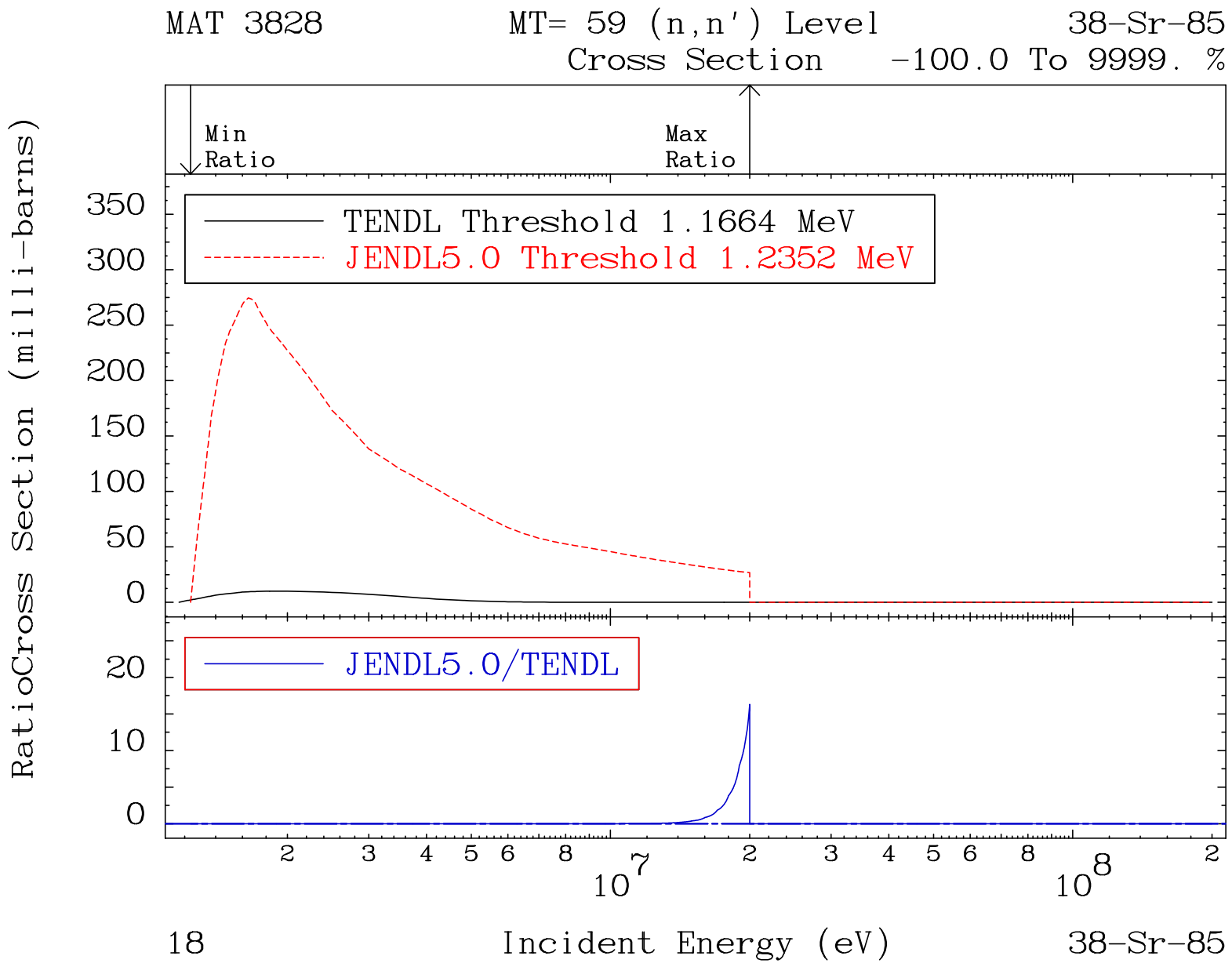

MAT 3828
MT= 54 (n,n') Level
38-Sr-85
Cross Section -100.0 To 59.10 %
Max Ratio
Min Ratio
TENDL Threshold 776.46 keV
JENDL5.0 Threshold 776.46 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
38-Sr-85

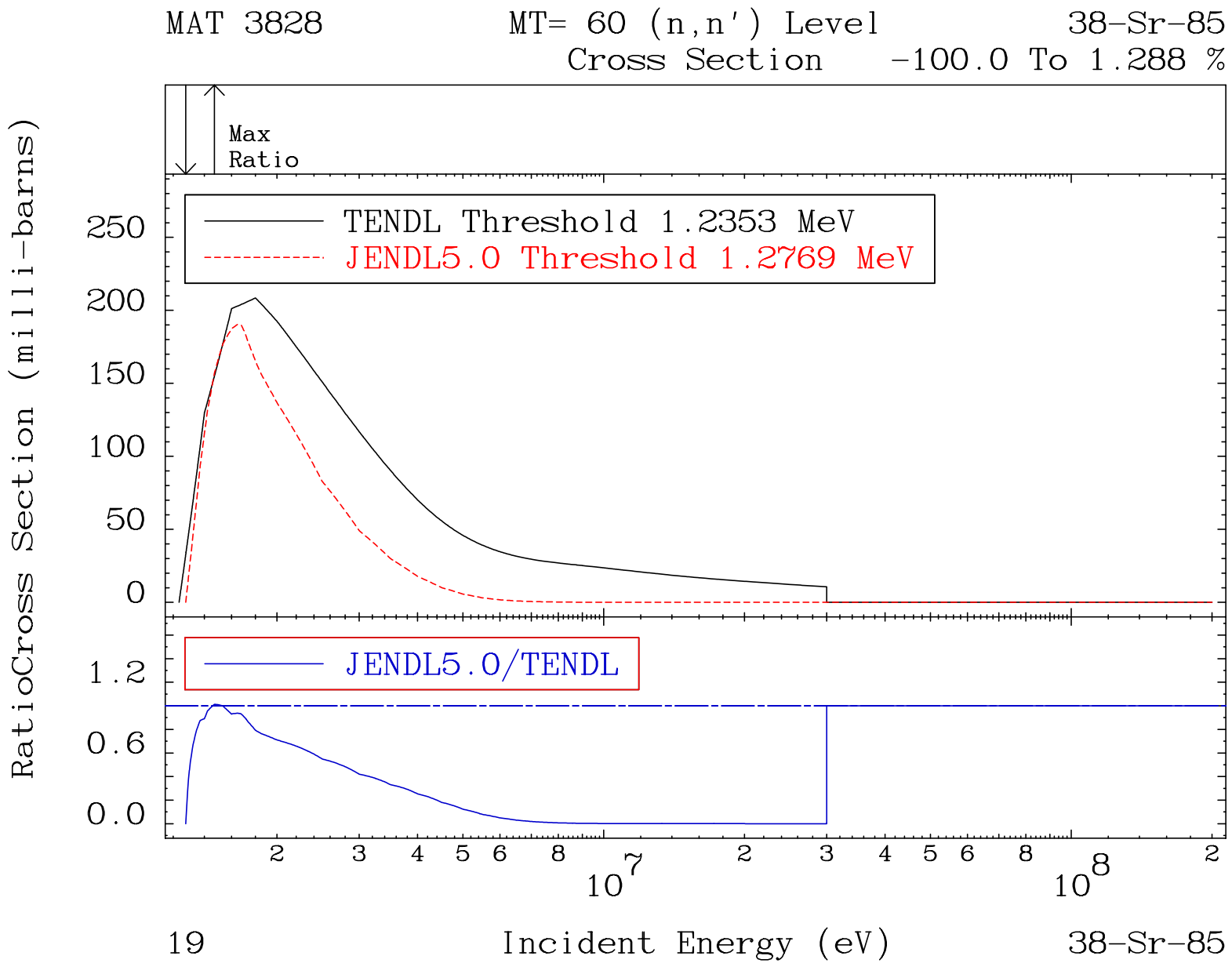

MAT 3828
MT= 55 (n,n') Level
38-Sr-85
Cross Section -100.0 To 36.71 %
Max Ratio
Min Ratio
TENDL Threshold 794.85 keV
JENDL5.0 Threshold 794.77 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
14
Incident Energy (eV)
38-Sr-85

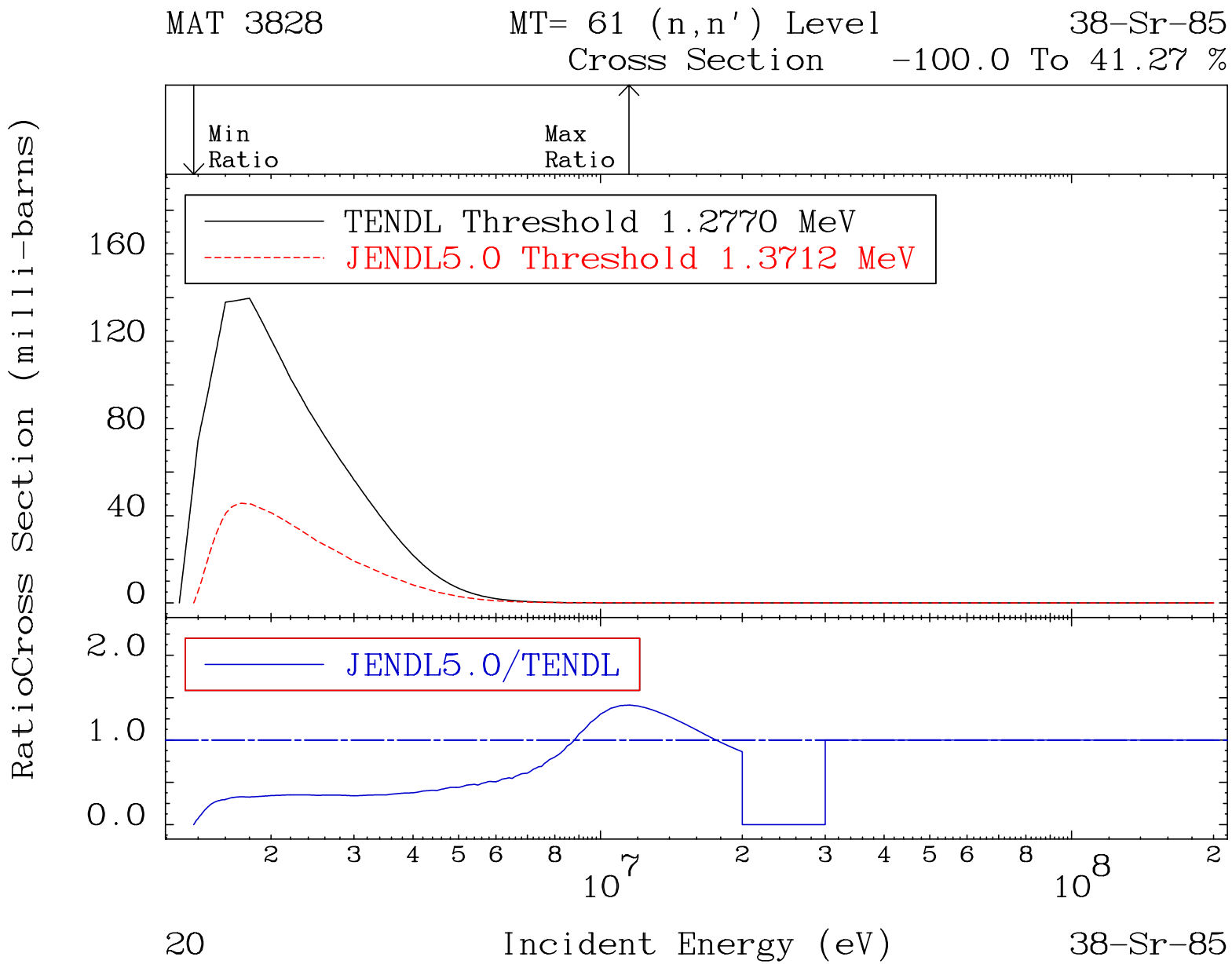

MAT 3828
MT= 56 (n,n') Level
38-Sr-85
Cross Section -100.0 To 36.50 %
Max Ratio
Min Ratio
TENDL Threshold 947.96 keV
JENDL5.0 Threshold 947.96 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
15
38-Sr-85

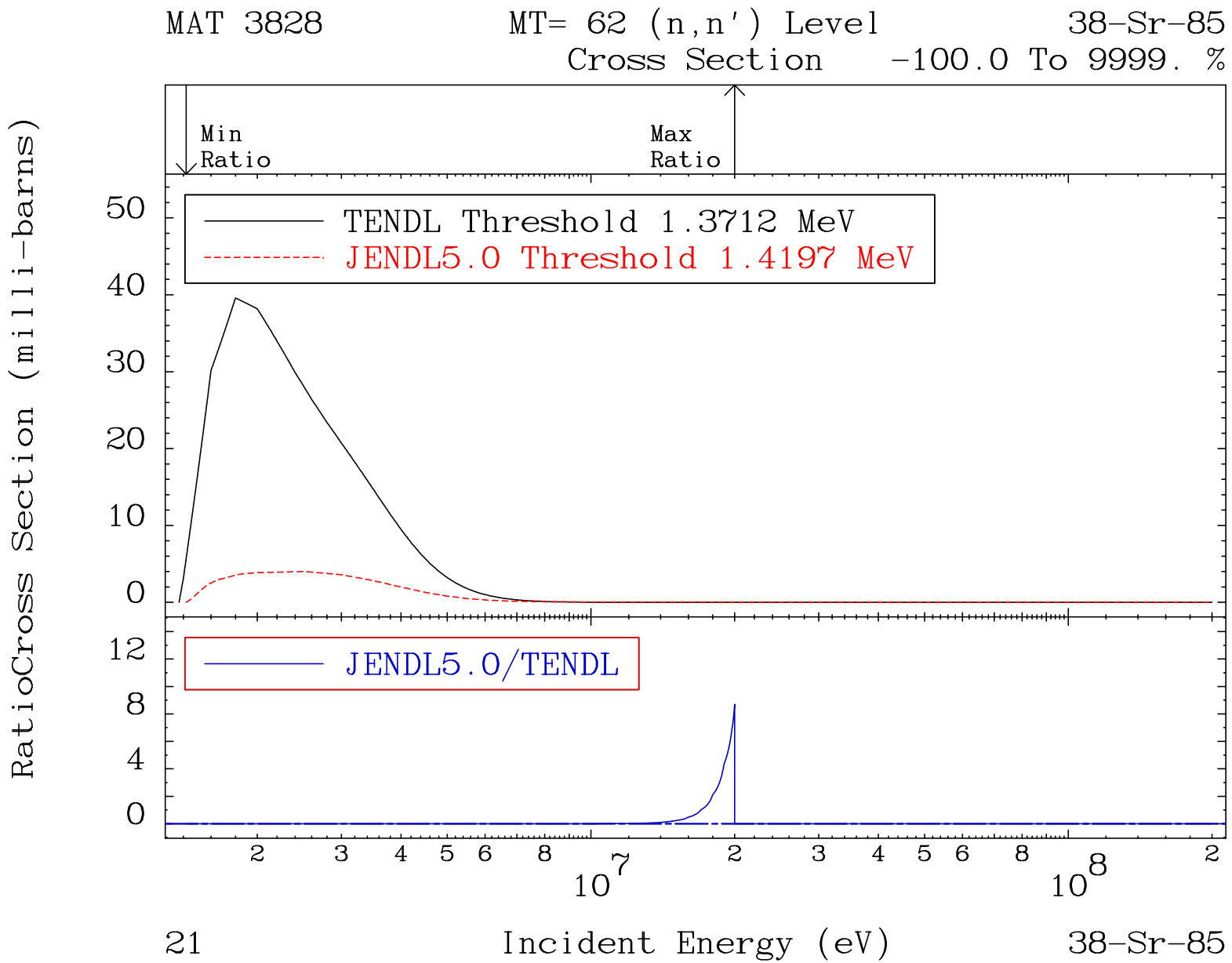

MAT 3828
MT= 57 (n,n') Level
38-Sr-85
Cross Section -100.0 To 63.27 %
Max
Ratio
TENDL Threshold 1.1232 MeV
JENDL5.0 Threshold 1.1245 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
38-Sr-85

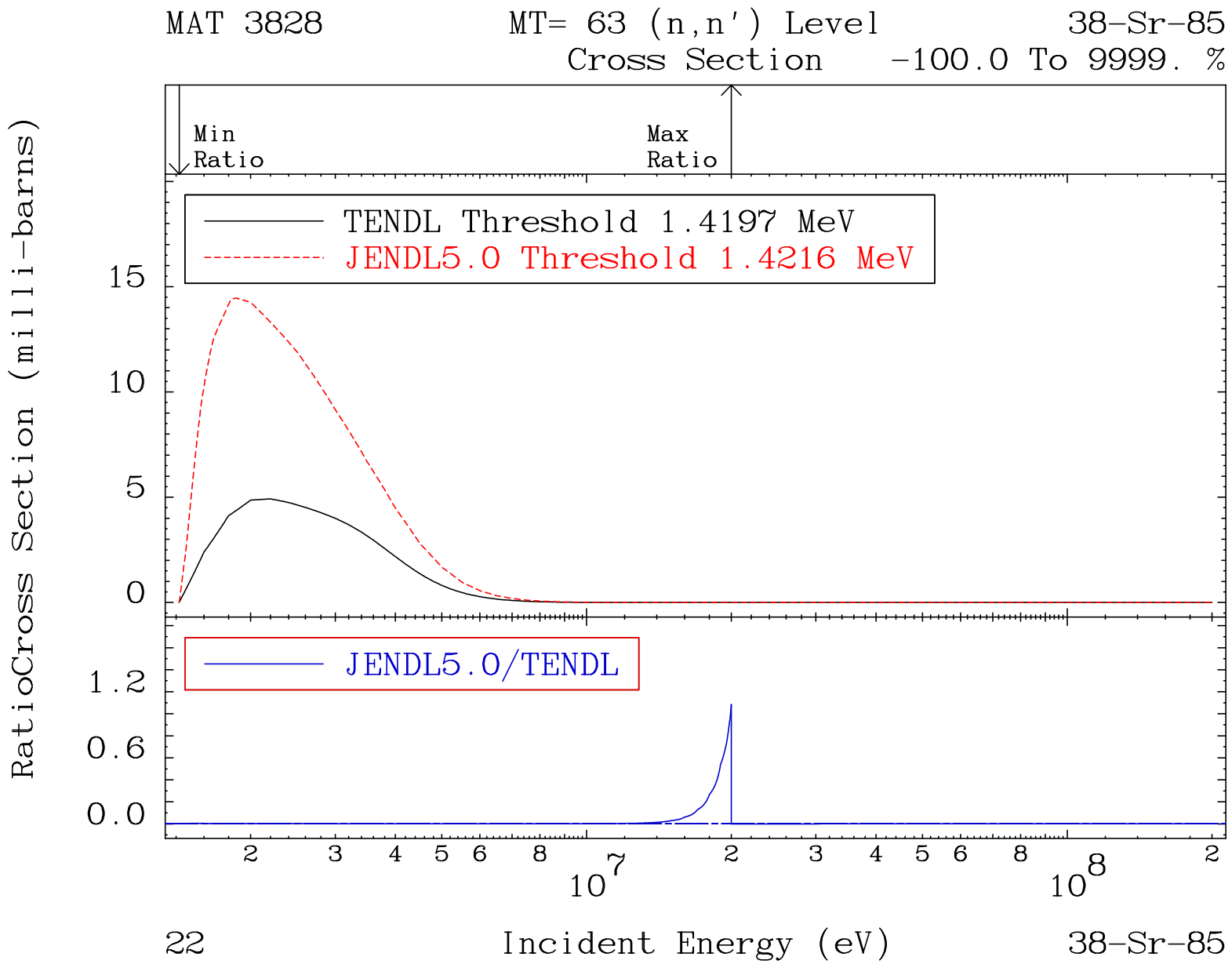

MAT 3828
MT= 58 (n,n') Level
38-Sr-85
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.1247 MeV
JENDL5.0 Threshold 1.1663 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
38-Sr-85

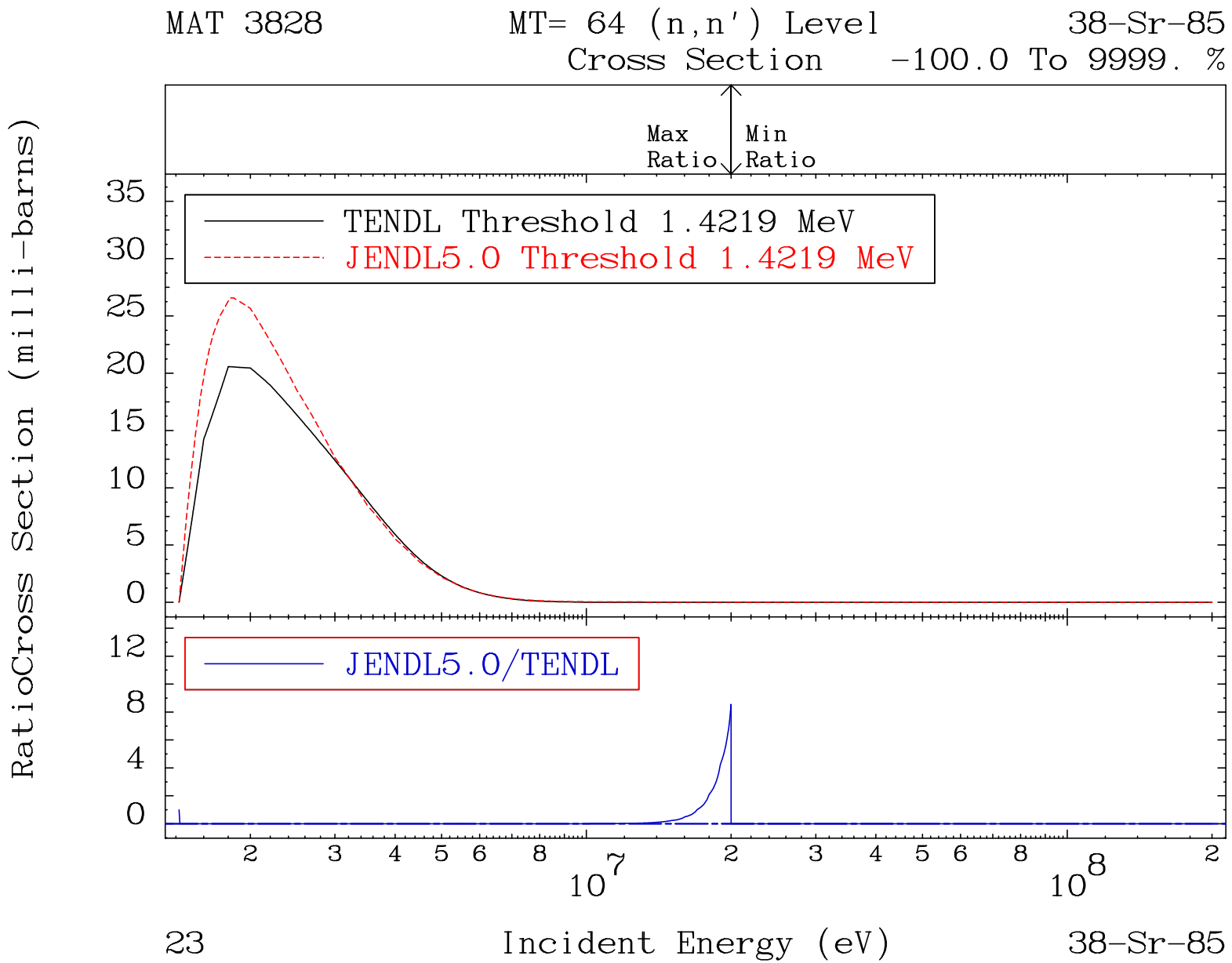

MAT 3828
MT= 59 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1664 MeV
JENDL5.0 Threshold 1.2352 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
20
10
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
38-Sr-85

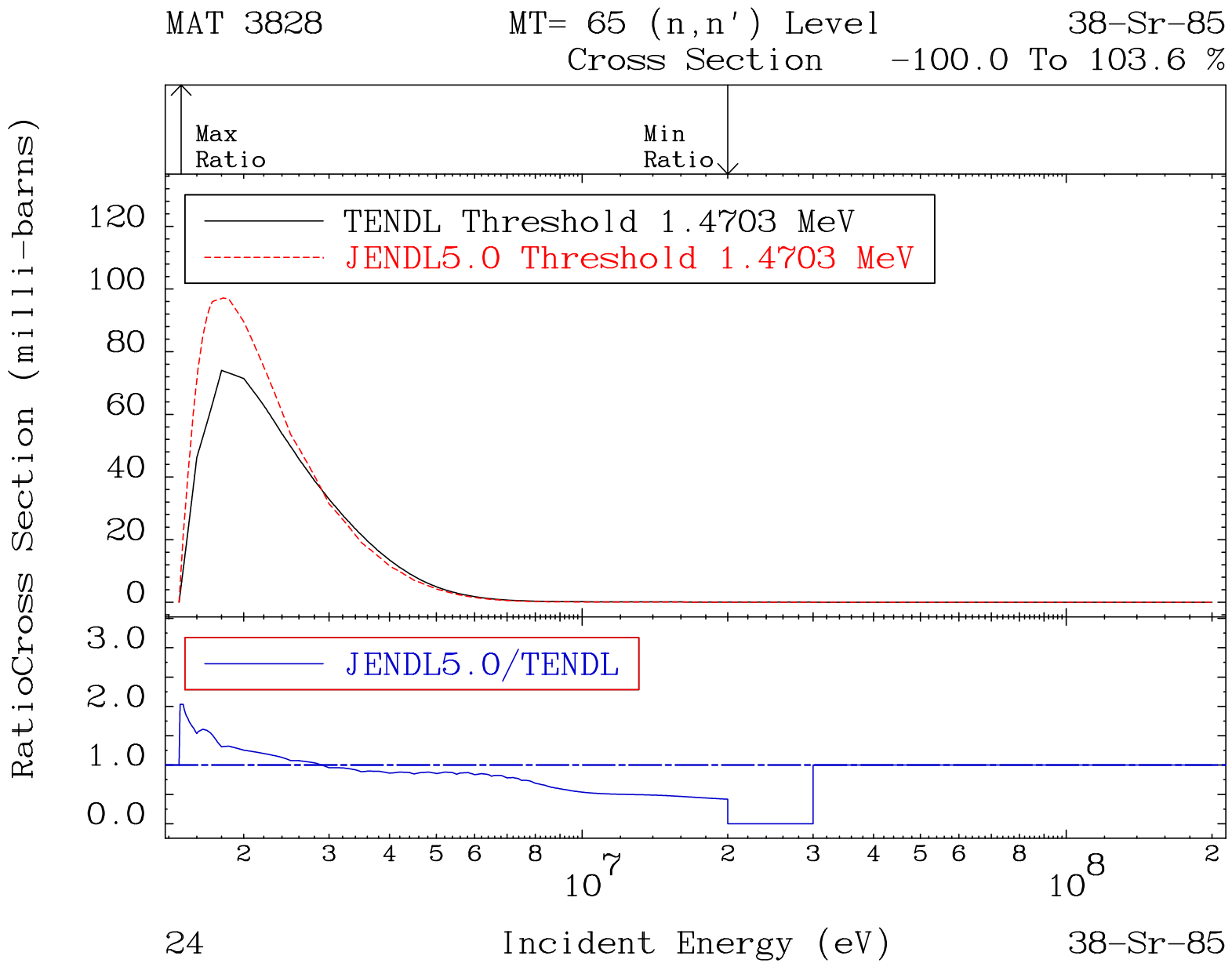

MAT 3828
MT= 60 (n,n') Level
38-Sr-85
Cross Section -100.0 To 1.288 %
Max
Ratio
TENDL Threshold 1.2353 MeV
JENDL5.0 Threshold 1.2769 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
38-Sr-85

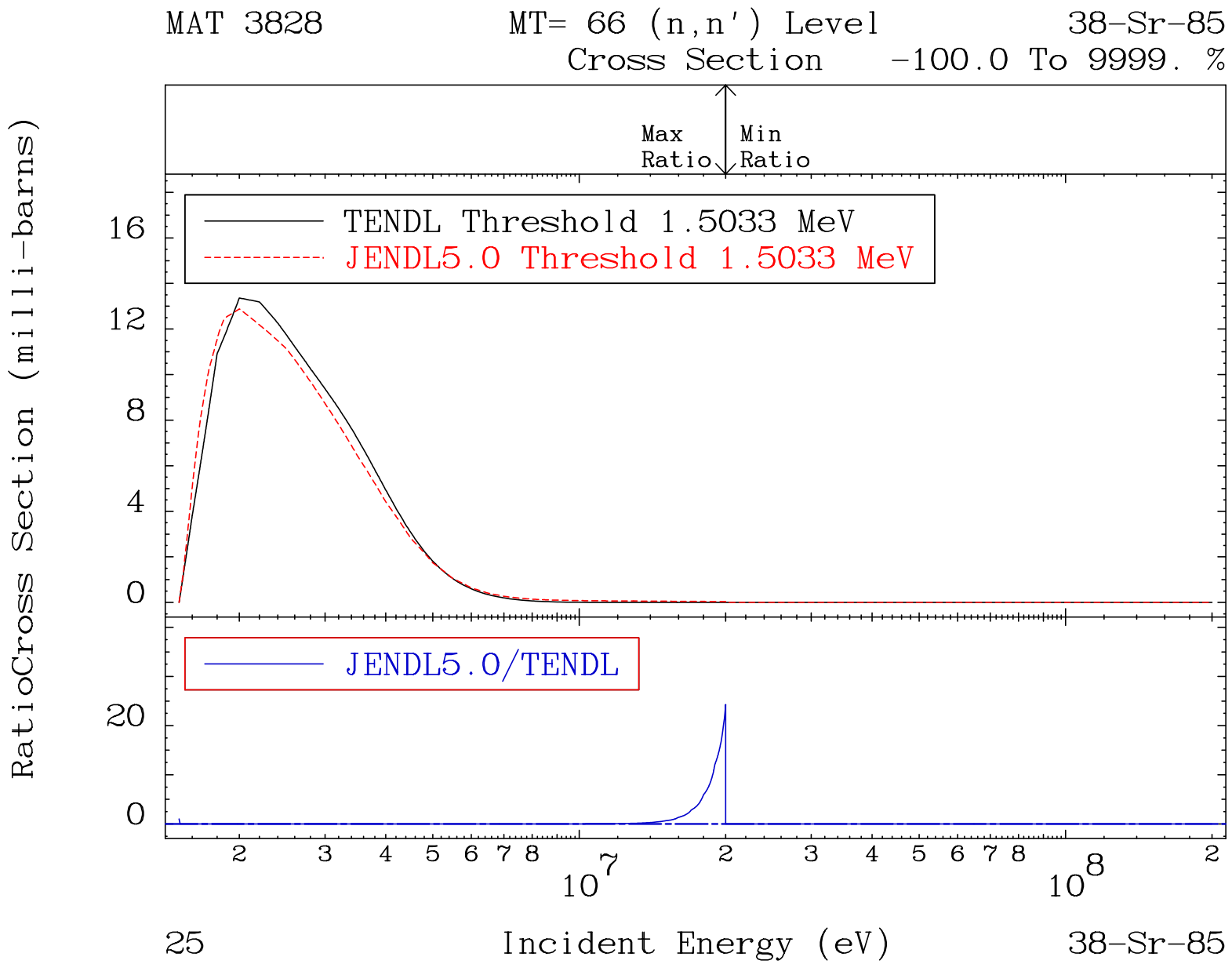

MAT 3828
MT= 61 (n,n') Level
38-Sr-85
Cross Section -100.0 To 41.27 %
Min Ratio
Max Ratio
TENDL Threshold 1.2770 MeV
JENDL5.0 Threshold 1.3712 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
38-Sr-85

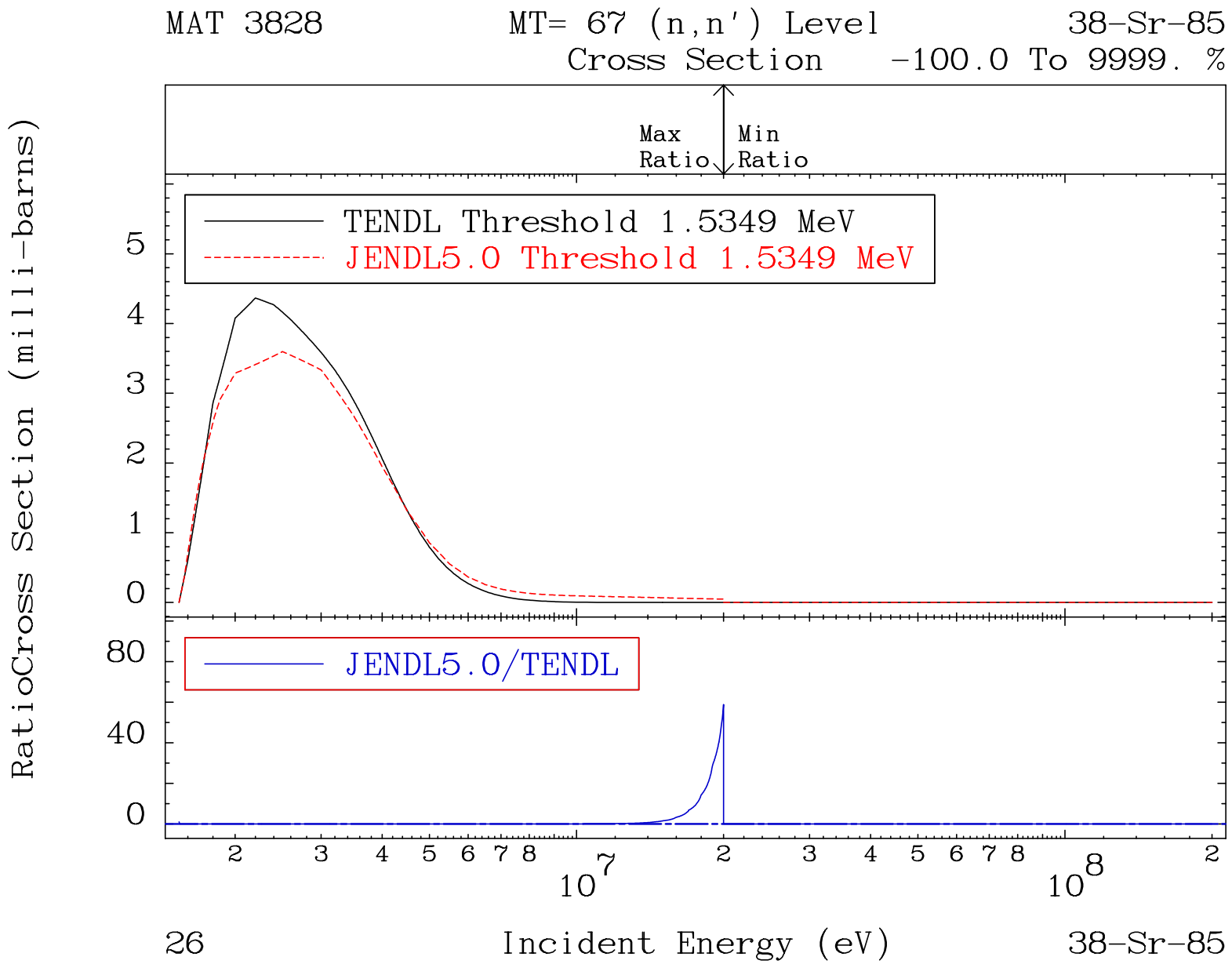

MAT 3828
MT= 62 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3712 MeV
JENDL5.0 Threshold 1.4197 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
12
8
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
38-Sr-85

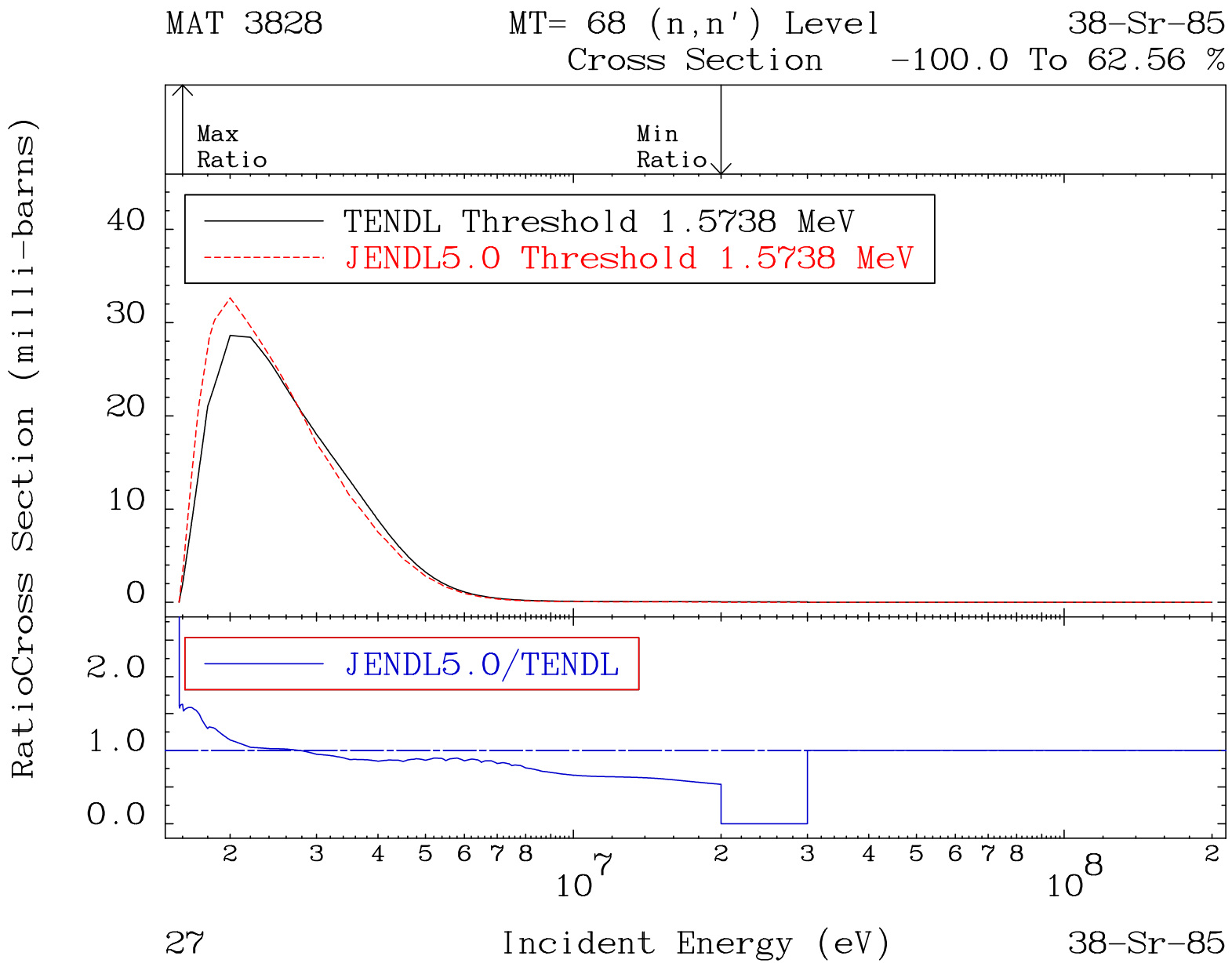

MAT 3828
MT= 63 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4197 MeV
JENDL5.0 Threshold 1.4216 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
38-Sr-85

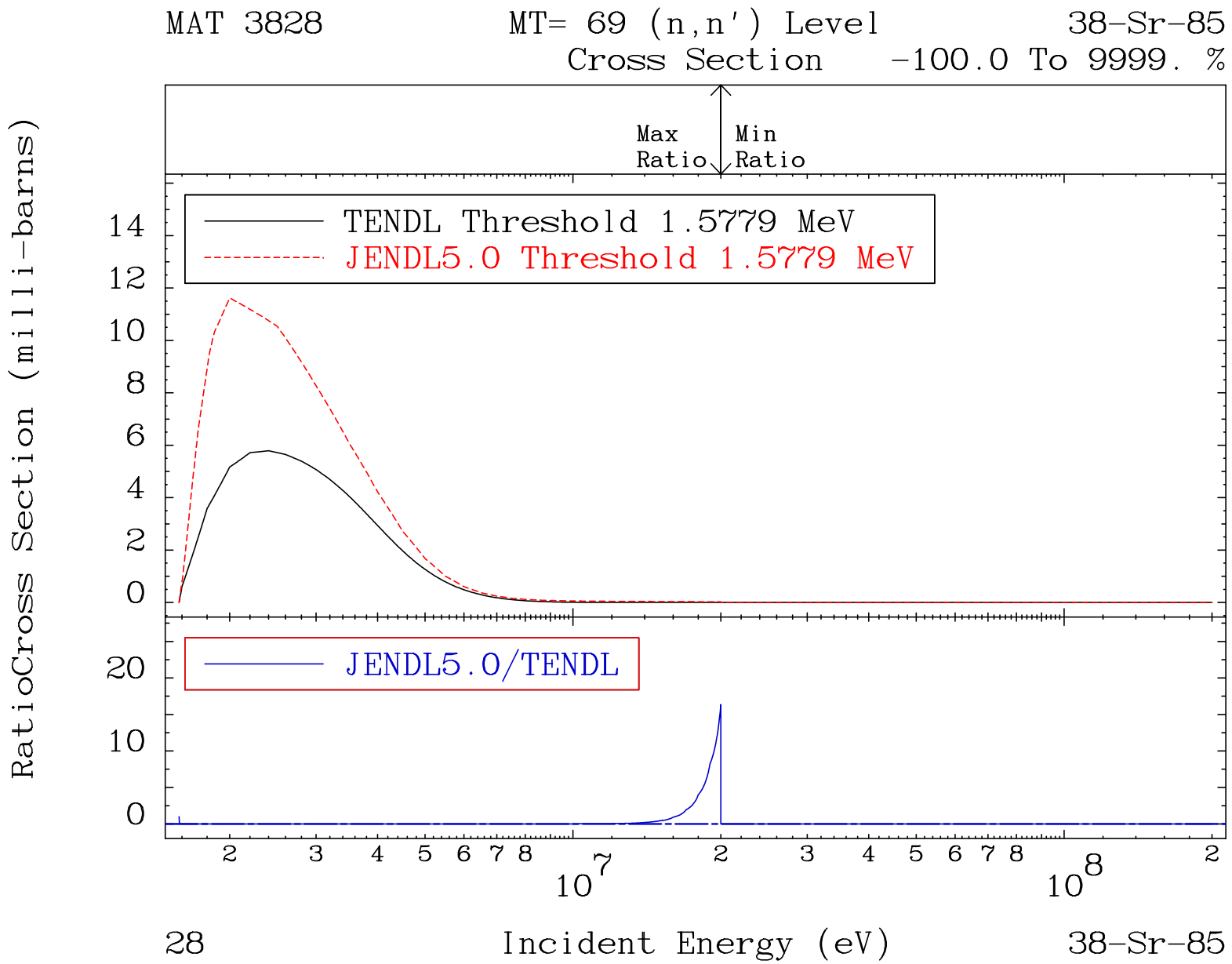

MAT 3828
MT= 64 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4219 MeV
JENDL5.0 Threshold 1.4219 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
38-Sr-85

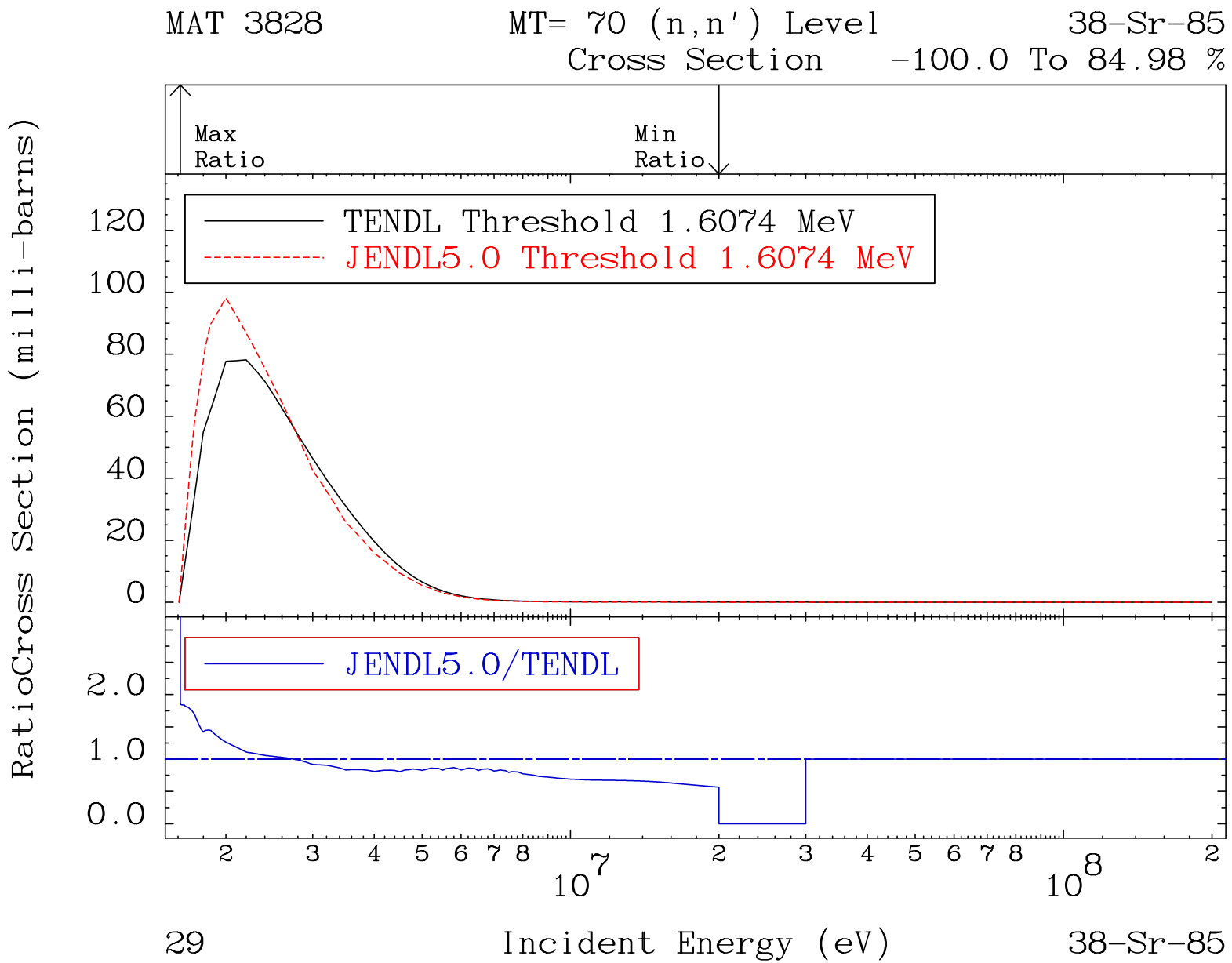

MAT 3828
MT= 65 (n,n') Level
38-Sr-85
Cross Section
-100.0 To 103.6 %
Max Ratio
Min Ratio
TENDL Threshold 1.4703 MeV
JENDL5.0 Threshold 1.4703 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
3.0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
24
Incident Energy (eV)
38-Sr-85

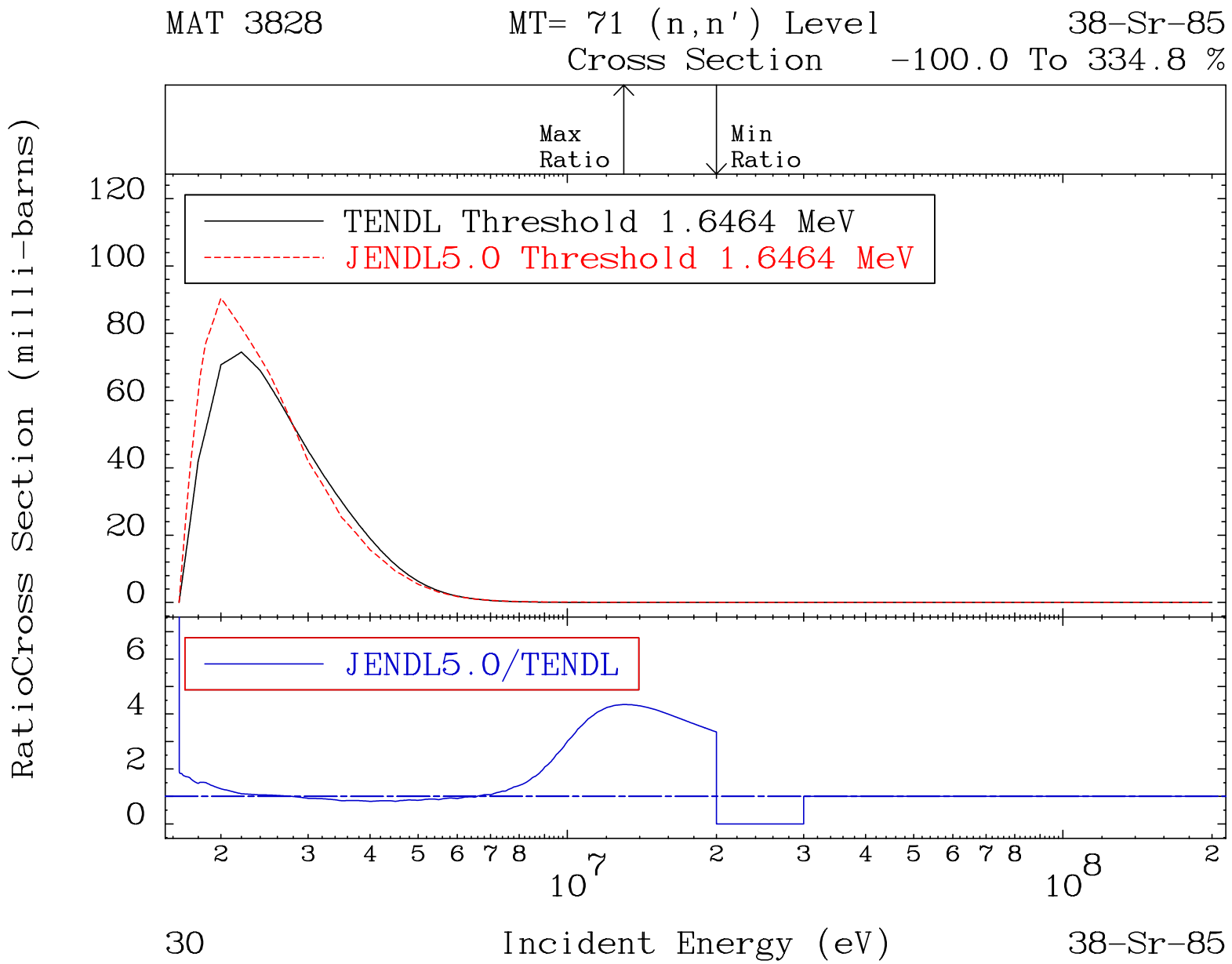

MAT 3828
MT= 66 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5033 MeV
JENDL5.0 Threshold 1.5033 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
38-Sr-85

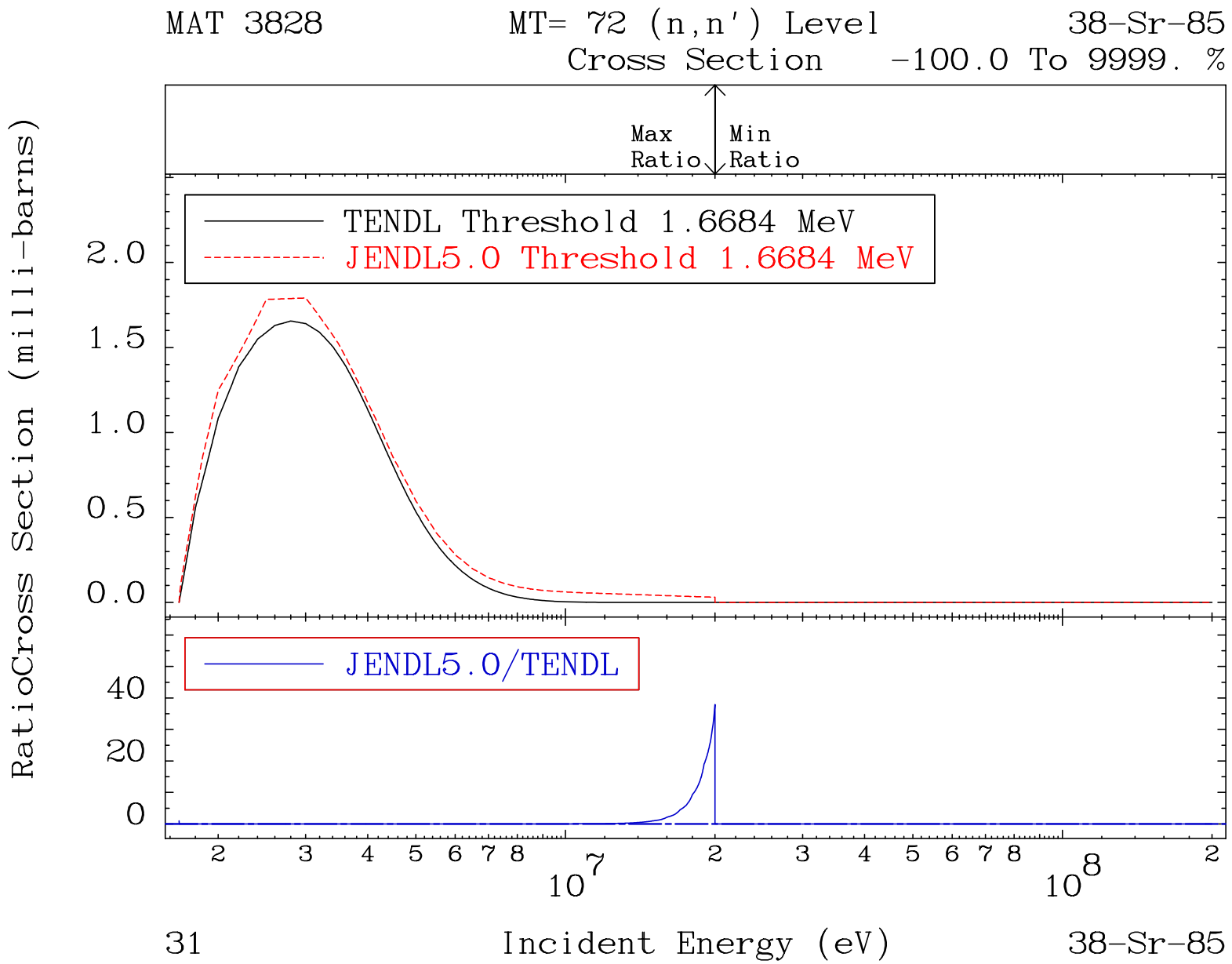

MAT 3828
MT= 67 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5349 MeV
JENDL5.0 Threshold 1.5349 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
38-Sr-85

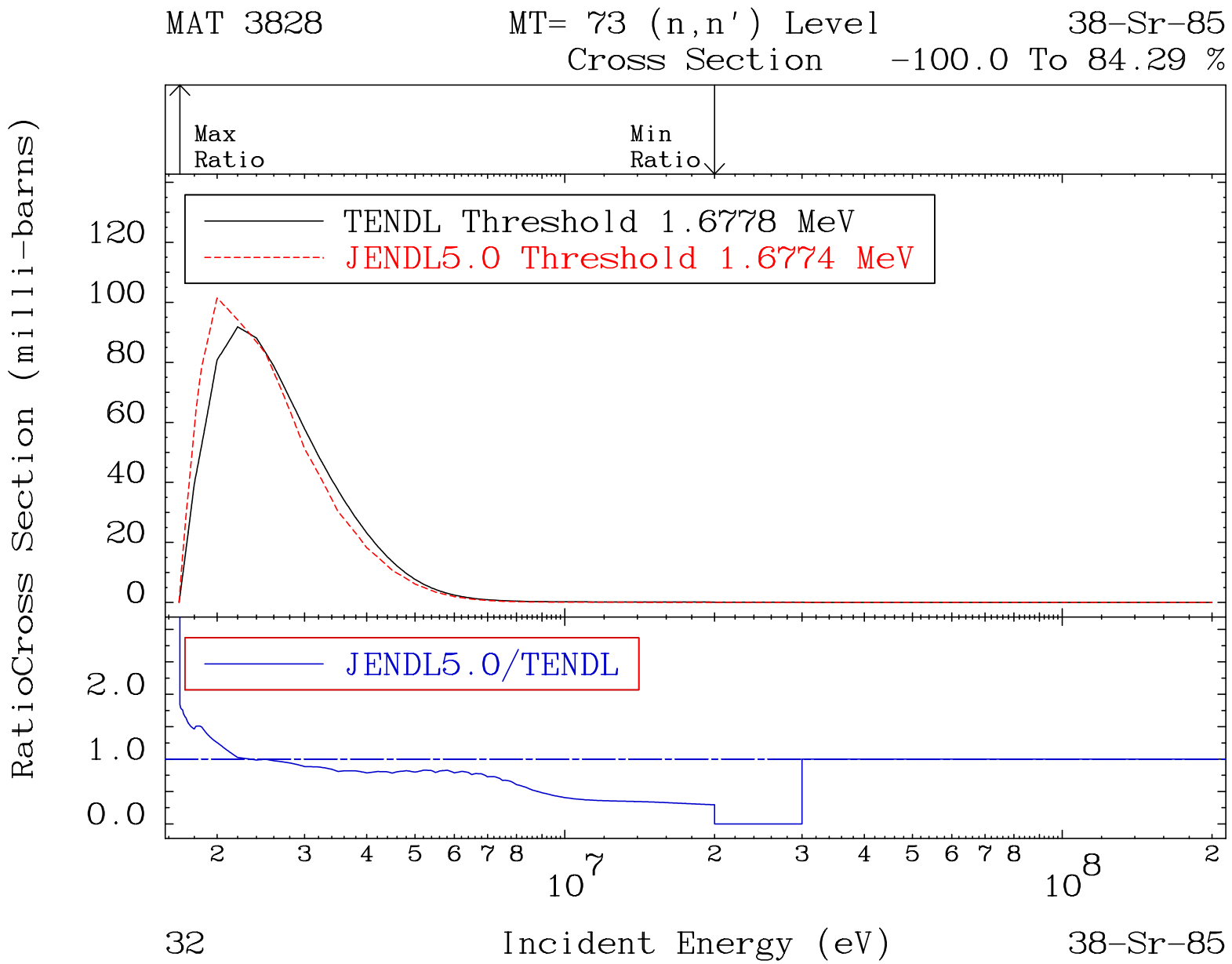

MAT 3828
MT= 68 (n,n') Level
38-Sr-85
Cross Section -100.0 To 62.56 %
Max Ratio
Min Ratio
TENDL Threshold 1.5738 MeV
JENDL5.0 Threshold 1.5738 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
38-Sr-85

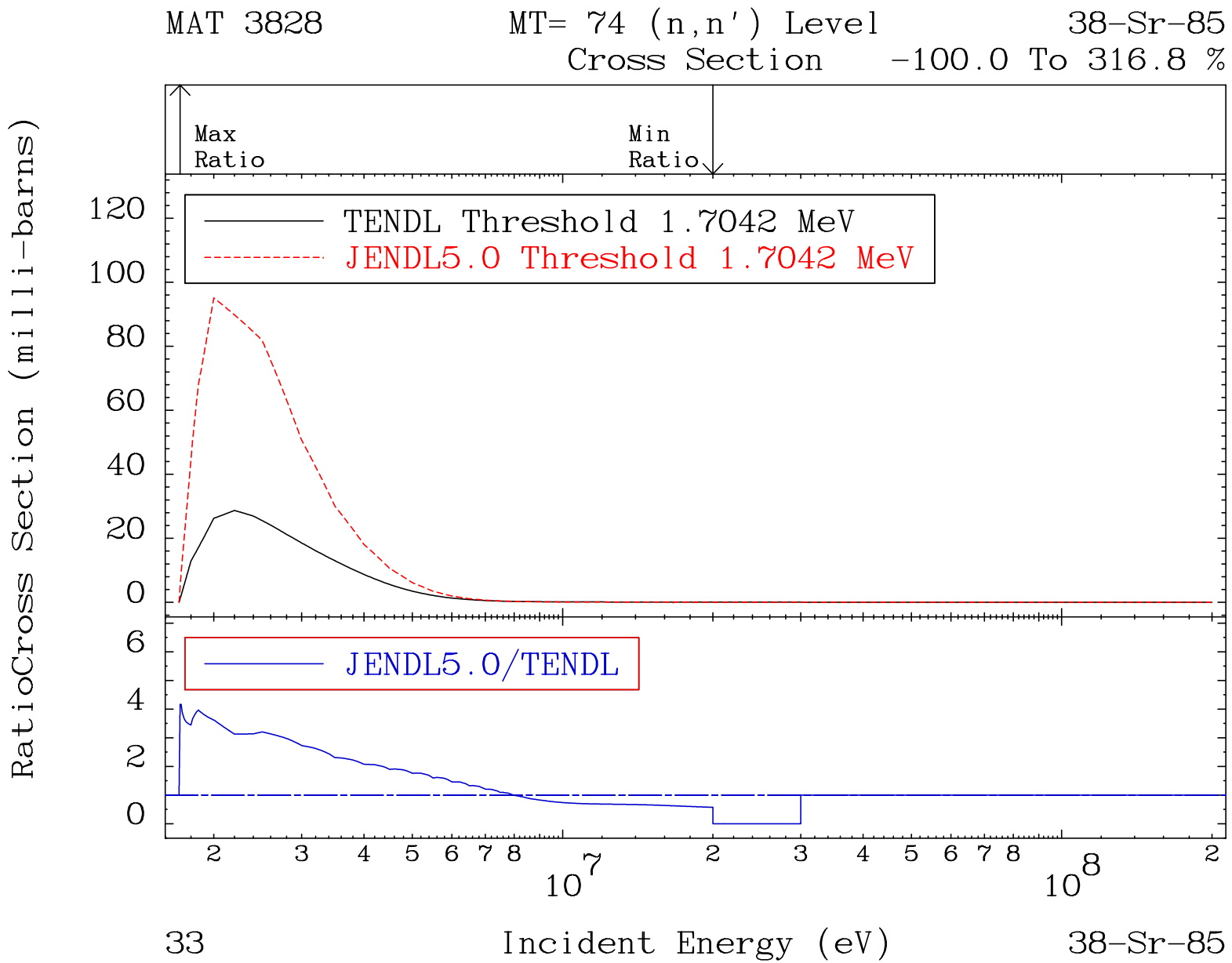

MAT 3828
MT= 69 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5779 MeV
JENDL5.0 Threshold 1.5779 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28
38-Sr-85

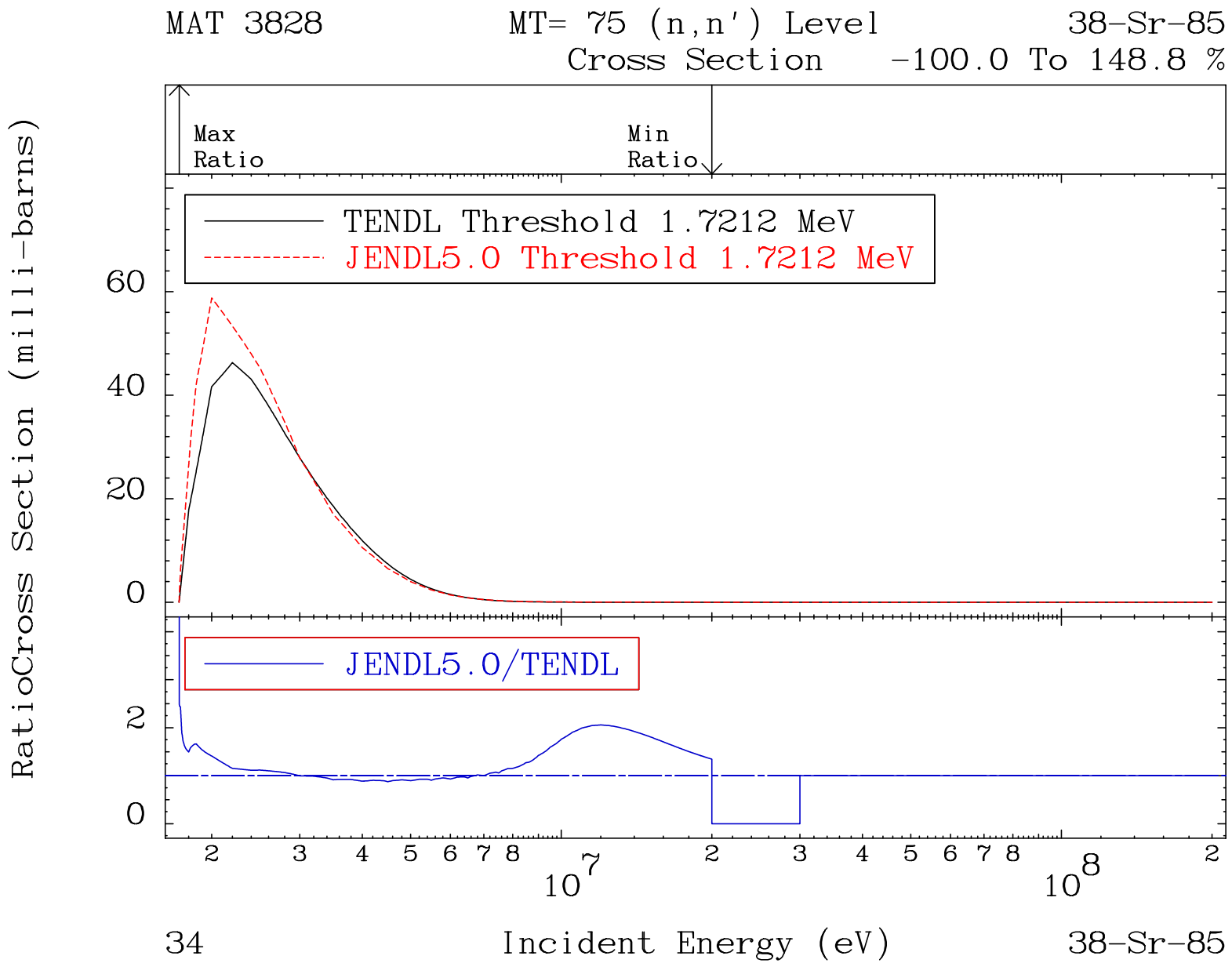

MAT 3828
MT= 70 (n,n') Level
38-Sr-85
Cross Section -100.0 To 84.98 %
Max Ratio
Min Ratio
TENDL Threshold 1.6074 MeV
JENDL5.0 Threshold 1.6074 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
38-Sr-85

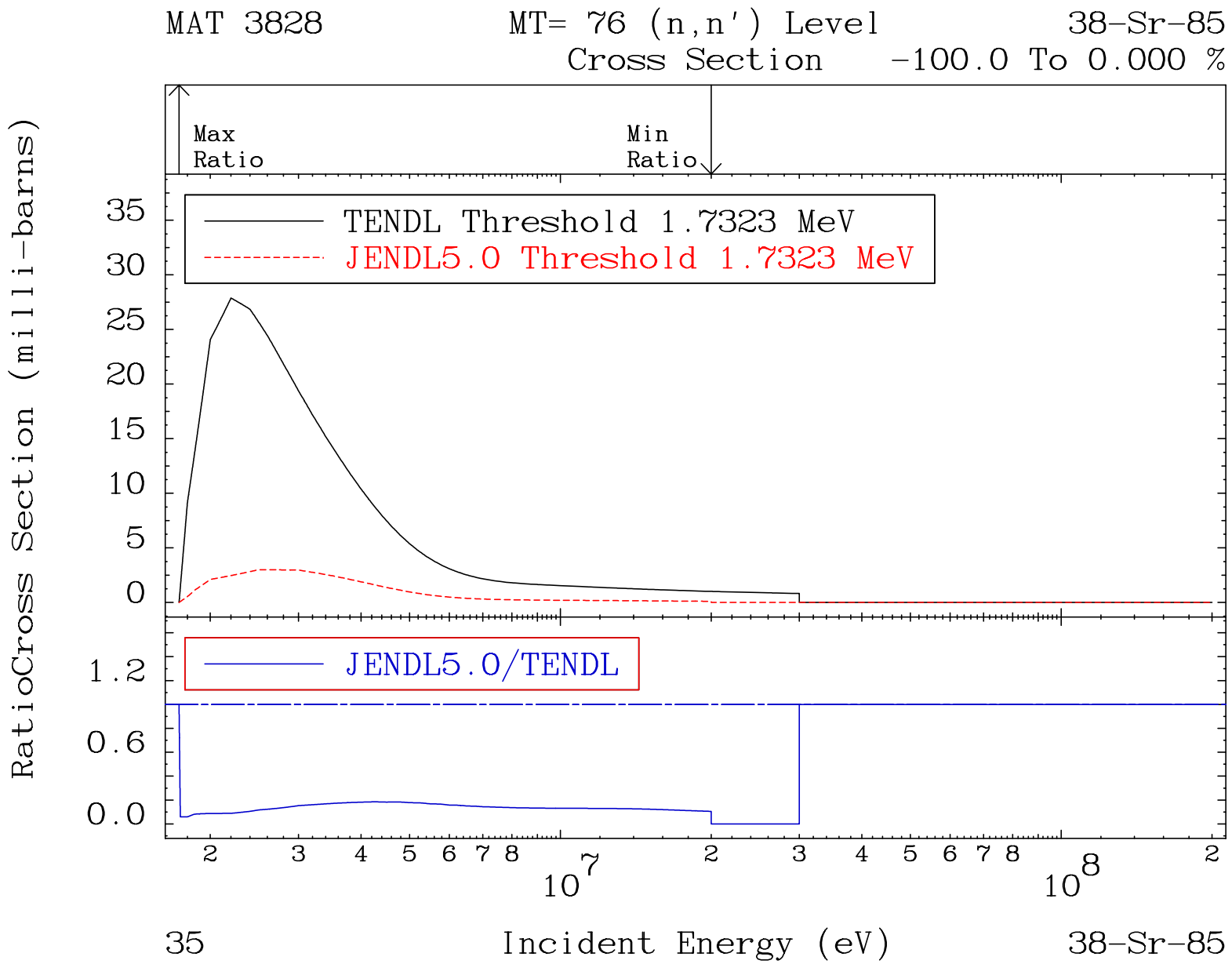

MAT 3828
MT= 71 (n,n') Level
38-Sr-85
Cross Section -100.0 To 334.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.6464 MeV
JENDL5.0 Threshold 1.6464 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
6
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
38-Sr-85

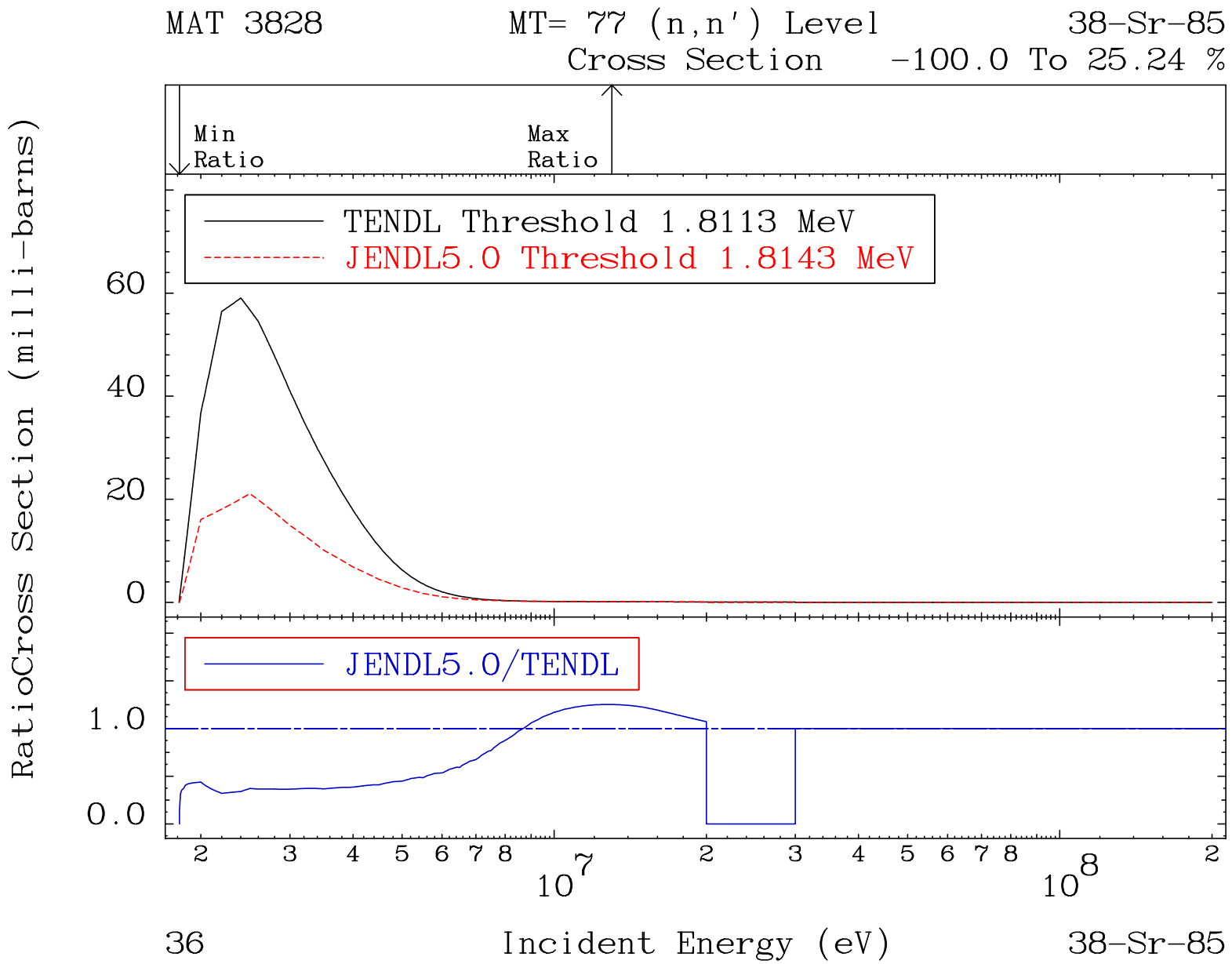

MAT 3828
MT= 72 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6684 MeV
JENDL5.0 Threshold 1.6684 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
38-Sr-85

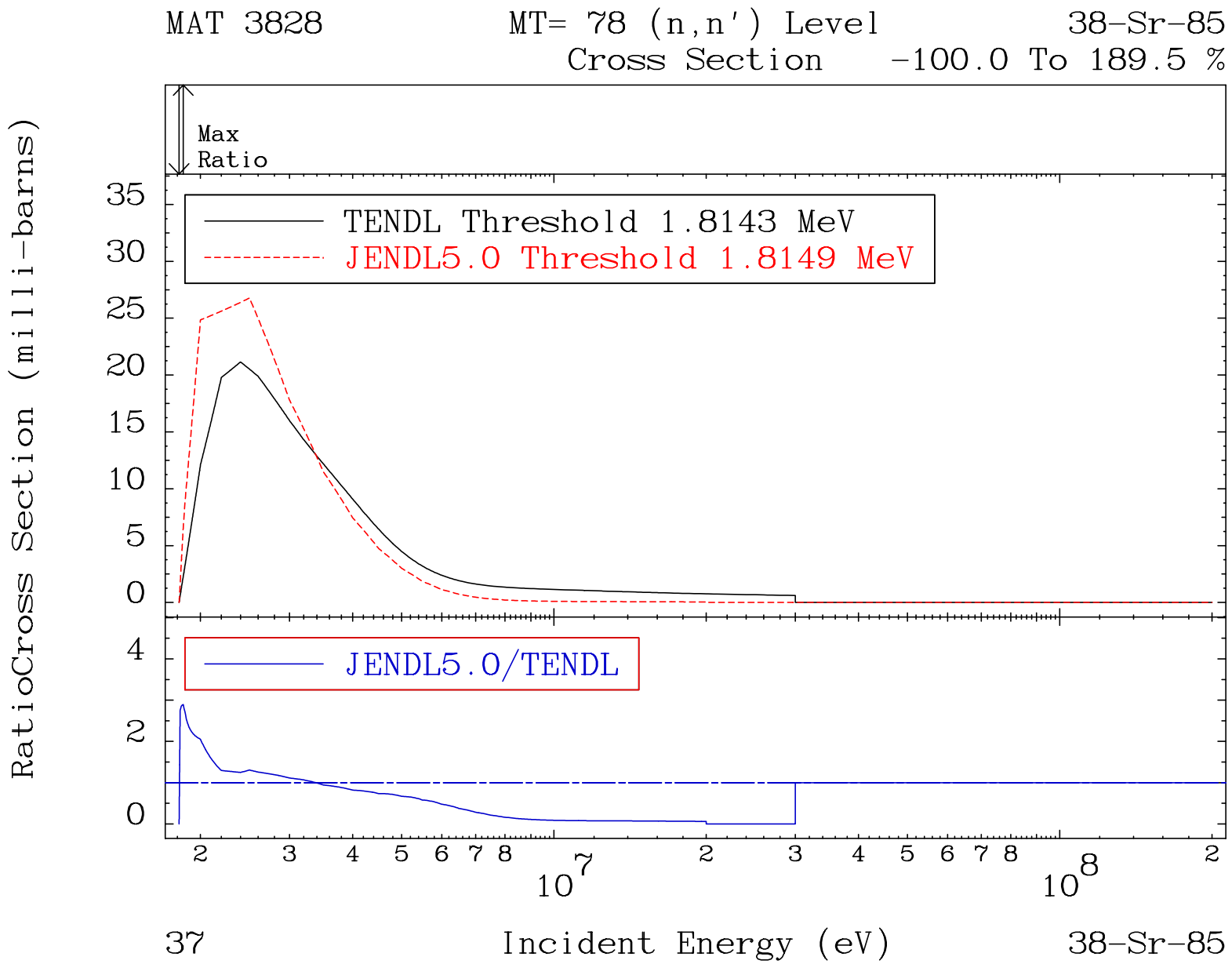

MAT 3828
MT= 73 (n,n') Level
38-Sr-85
Cross Section -100.0 To 84.29 %
Max Ratio
Min Ratio
TENDL Threshold 1.6778 MeV
JENDL5.0 Threshold 1.6774 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
38-Sr-85

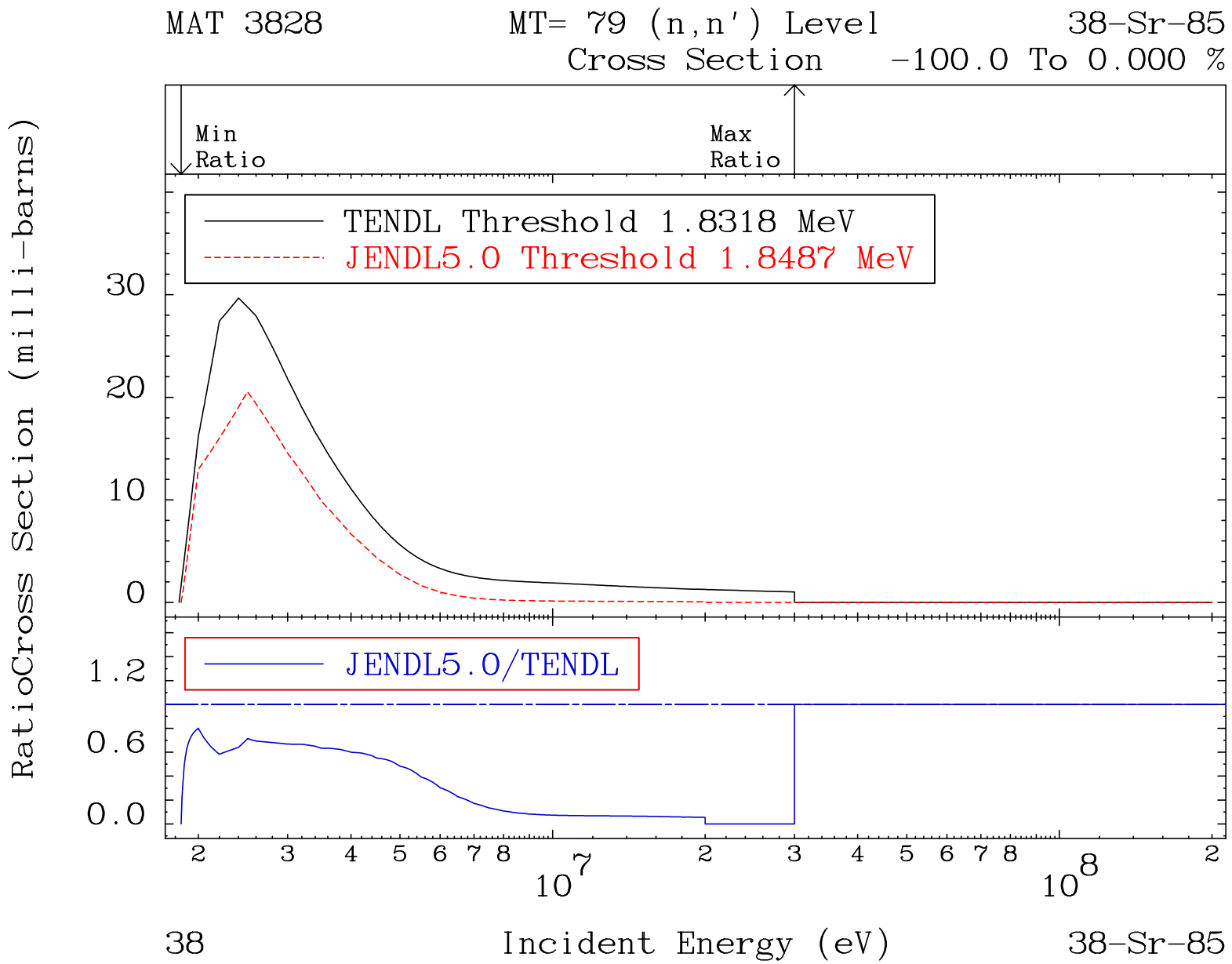

MAT 3828
MT= 74 (n,n') Level
38-Sr-85
Cross Section -100.0 To 316.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.7042 MeV
JENDL5.0 Threshold 1.7042 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
6
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
38-Sr-85

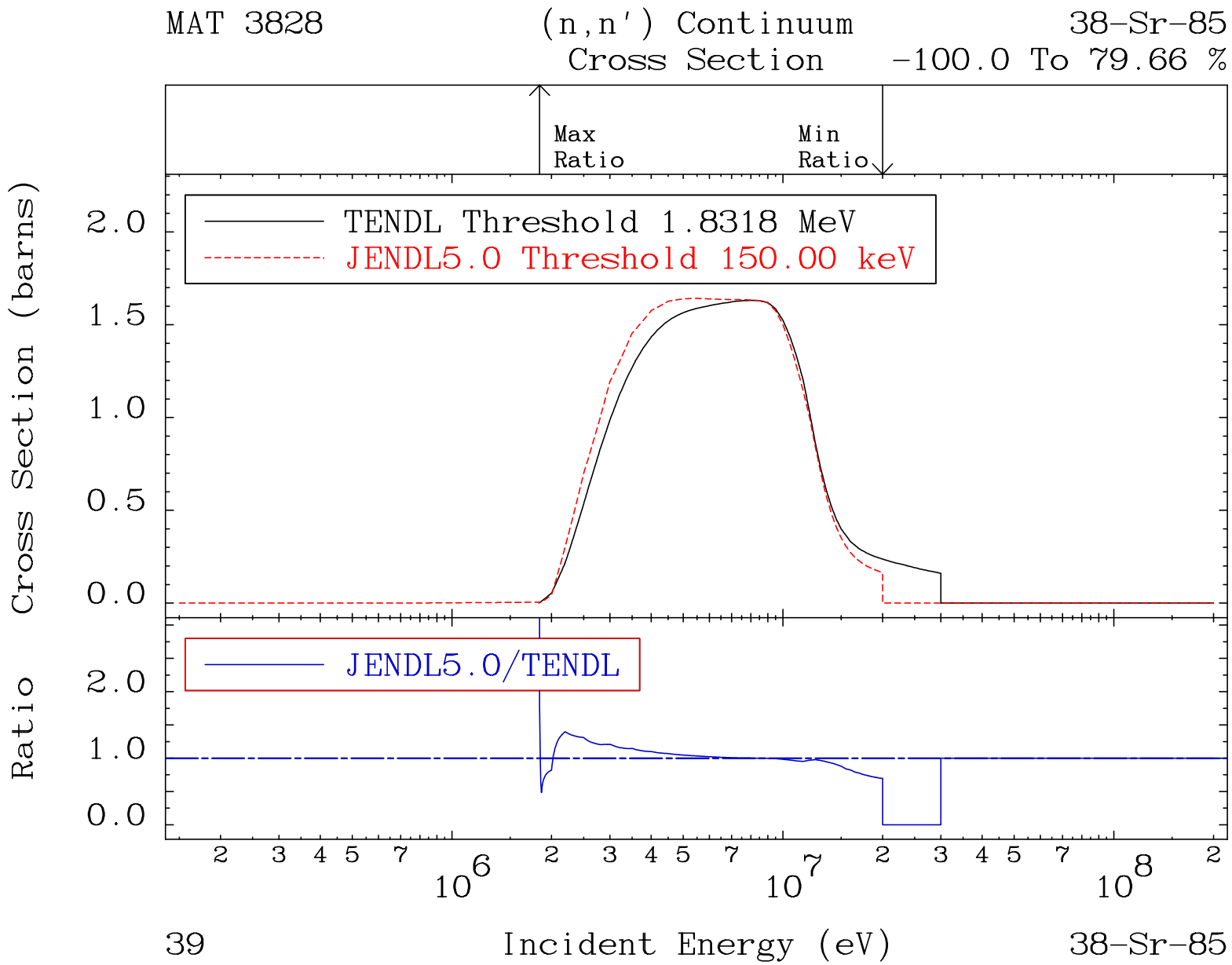

MAT 3828
MT= 75 (n,n') Level
38-Sr-85
Cross Section -100.0 To 148.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.7212 MeV
JENDL5.0 Threshold 1.7212 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
38-Sr-85

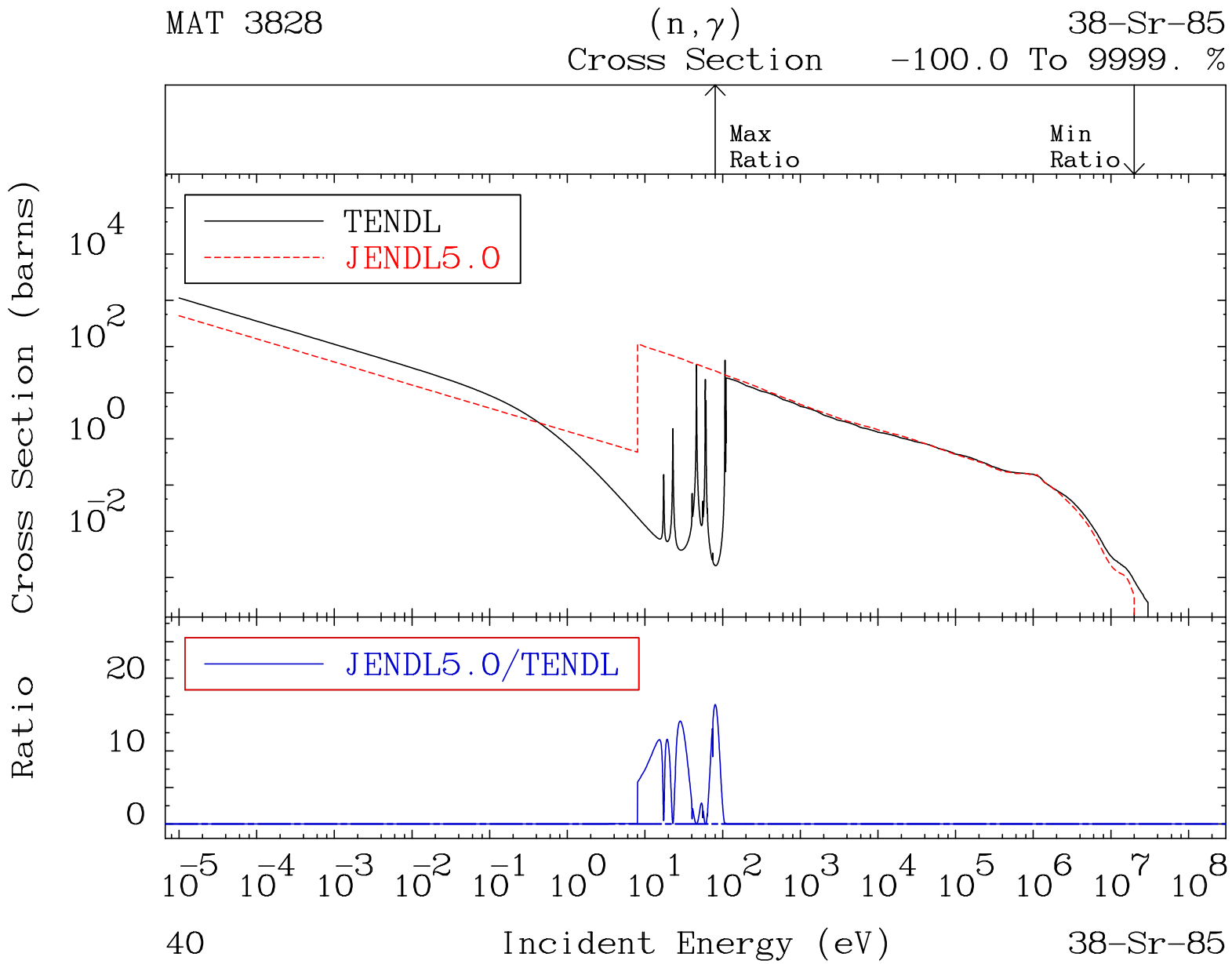

MAT 3828
MT= 76 (n,n') Level
38-Sr-85
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.7323 MeV
JENDL5.0 Threshold 1.7323 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
38-Sr-85

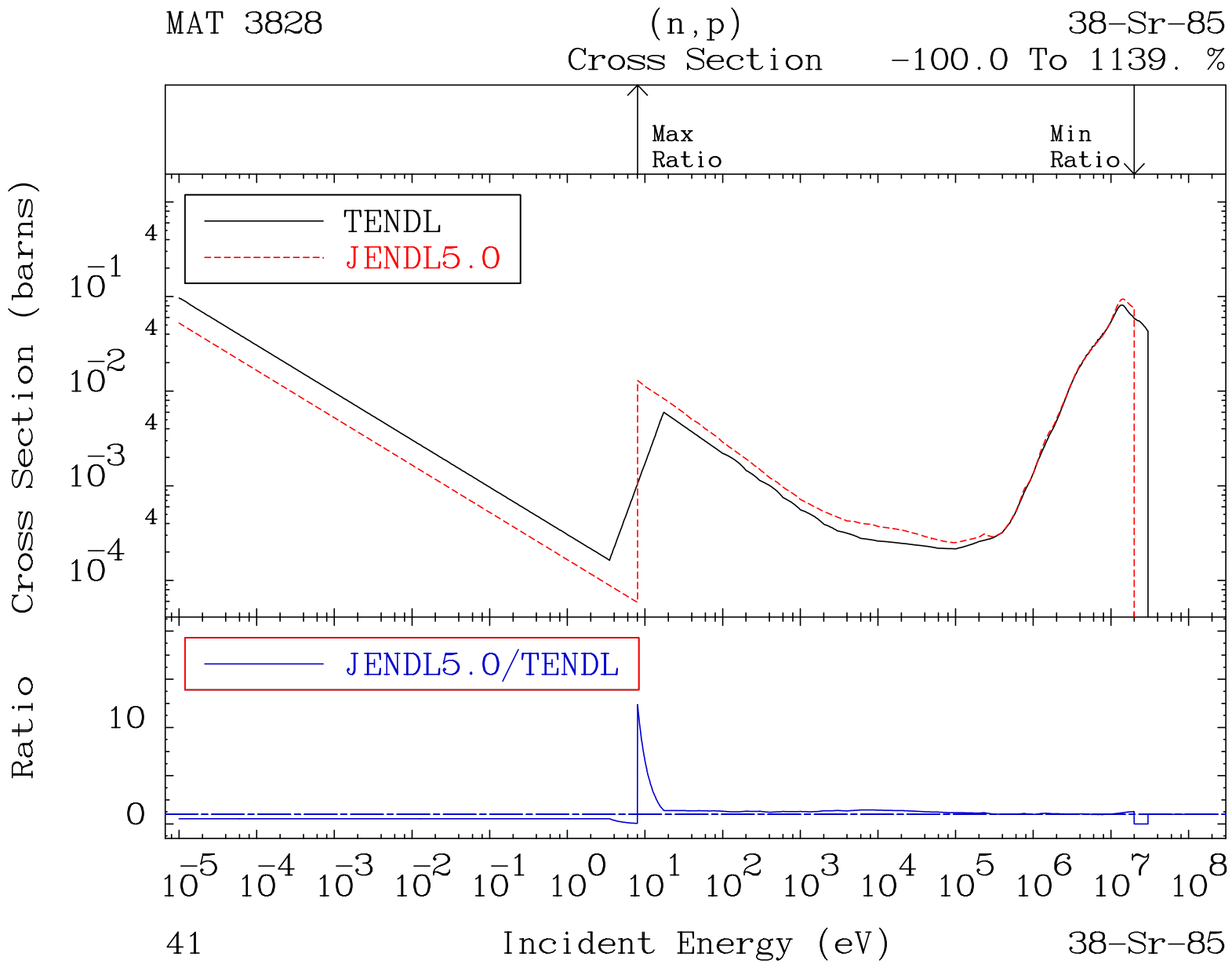

MAT 3828
MT= 77 (n,n') Level
38-Sr-85
Cross Section -100.0 To 25.24 %
Min Ratio
Max Ratio
TENDL Threshold 1.8113 MeV
JENDL5.0 Threshold 1.8143 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
38-Sr-85

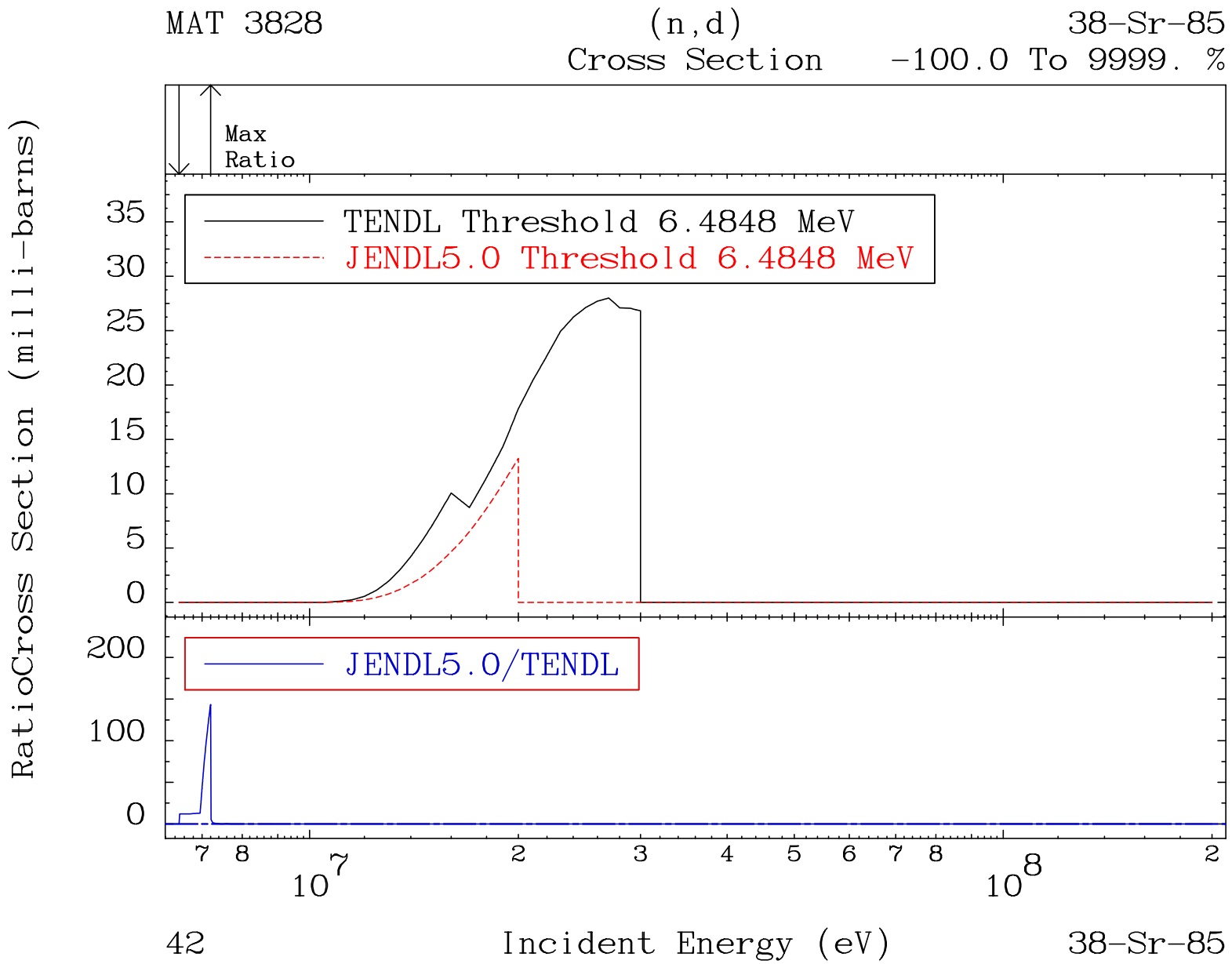

MAT 3828
MT= 78 (n,n') Level
38-Sr-85
Cross Section -100.0 To 189.5 %
Max
Ratio
TENDL Threshold 1.8143 MeV
JENDL5.0 Threshold 1.8149 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
38-Sr-85

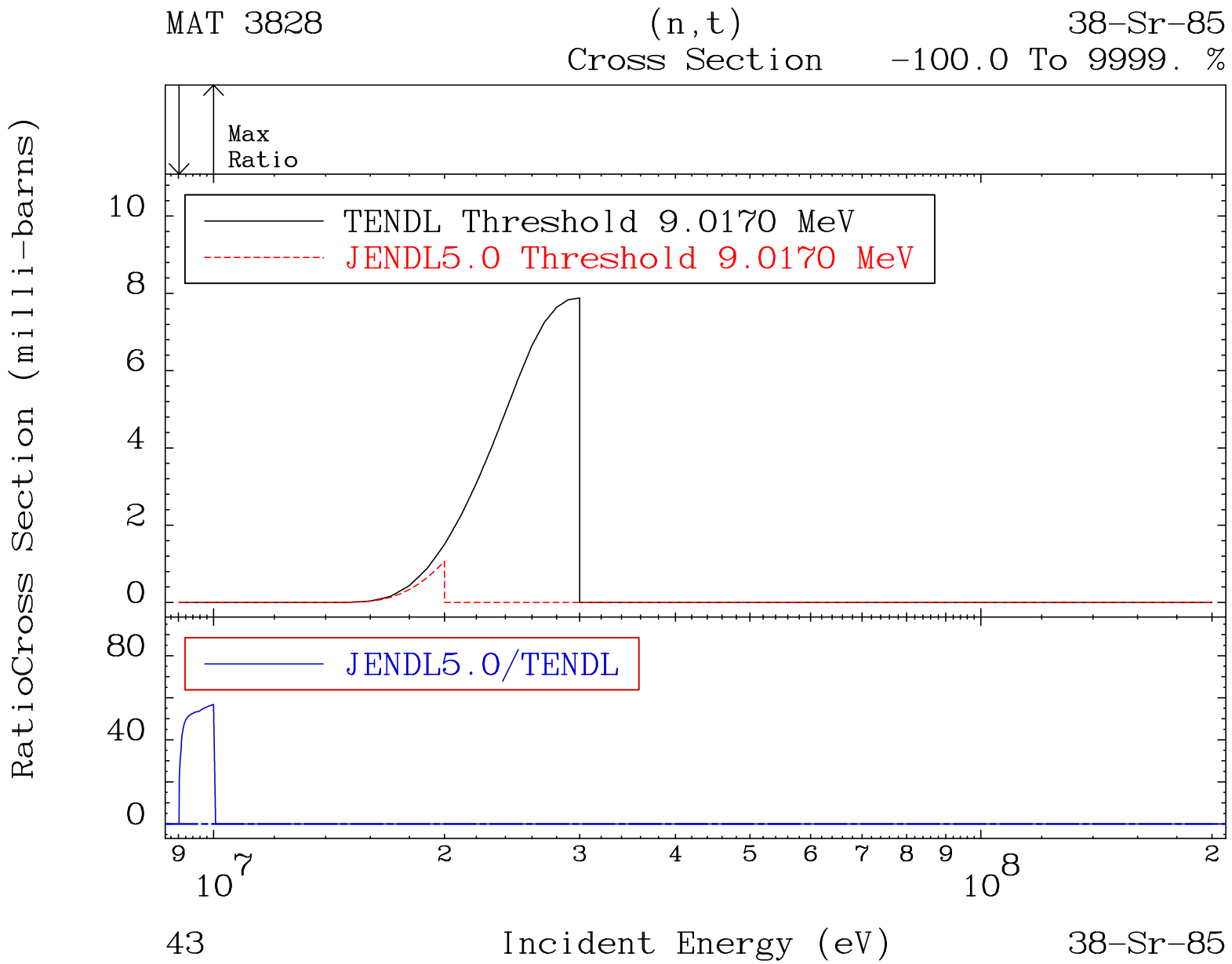

MAT 3828
MT= 79 (n,n') Level
38-Sr-85
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.8318 MeV
JENDL5.0 Threshold 1.8487 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
38-Sr-85

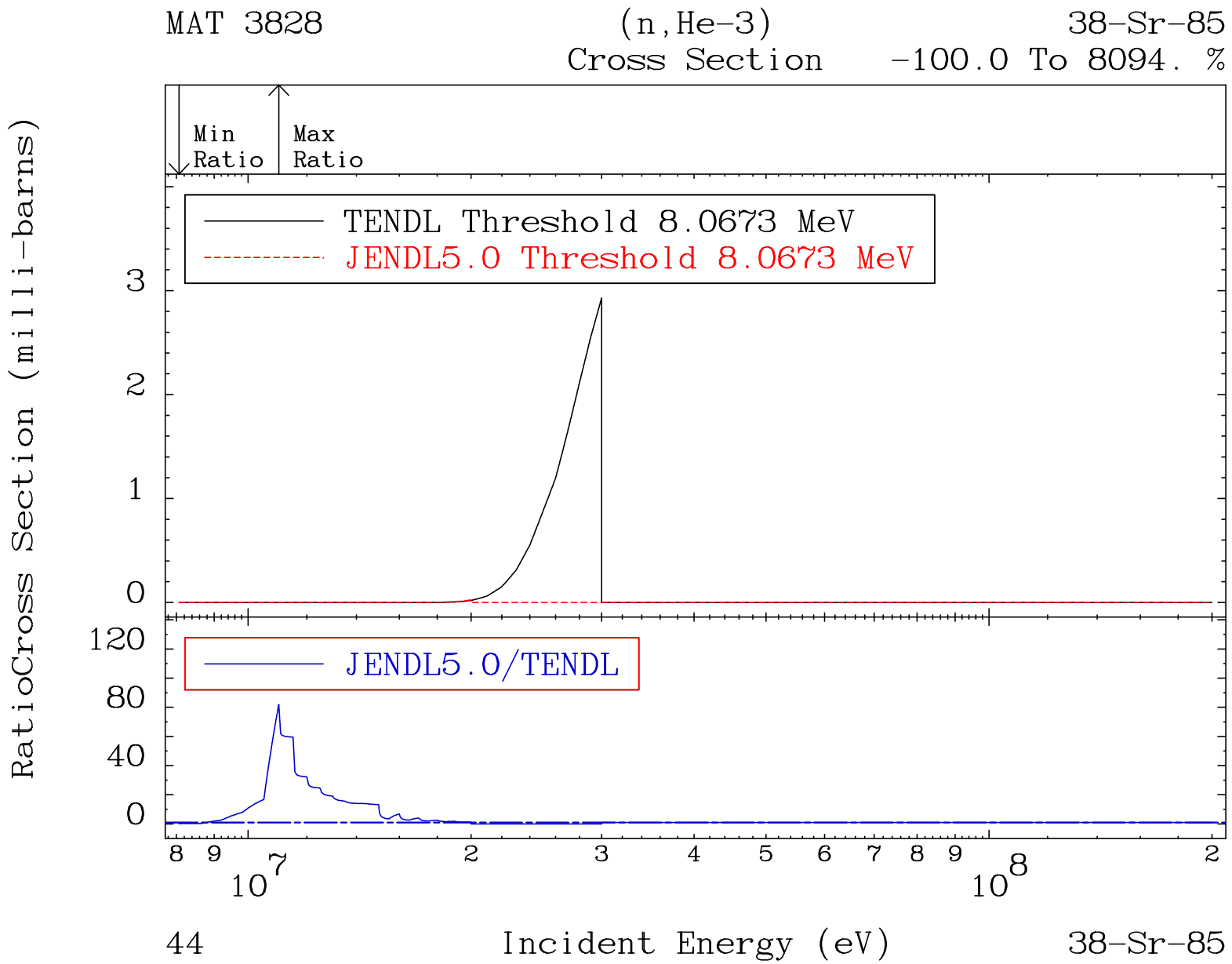

MAT 3828
(n,n') Continuum
Cross Section
38-Sr-85
-100.0 To 79.66 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.8318 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
39
Incident Energy (eV)
38-Sr-85

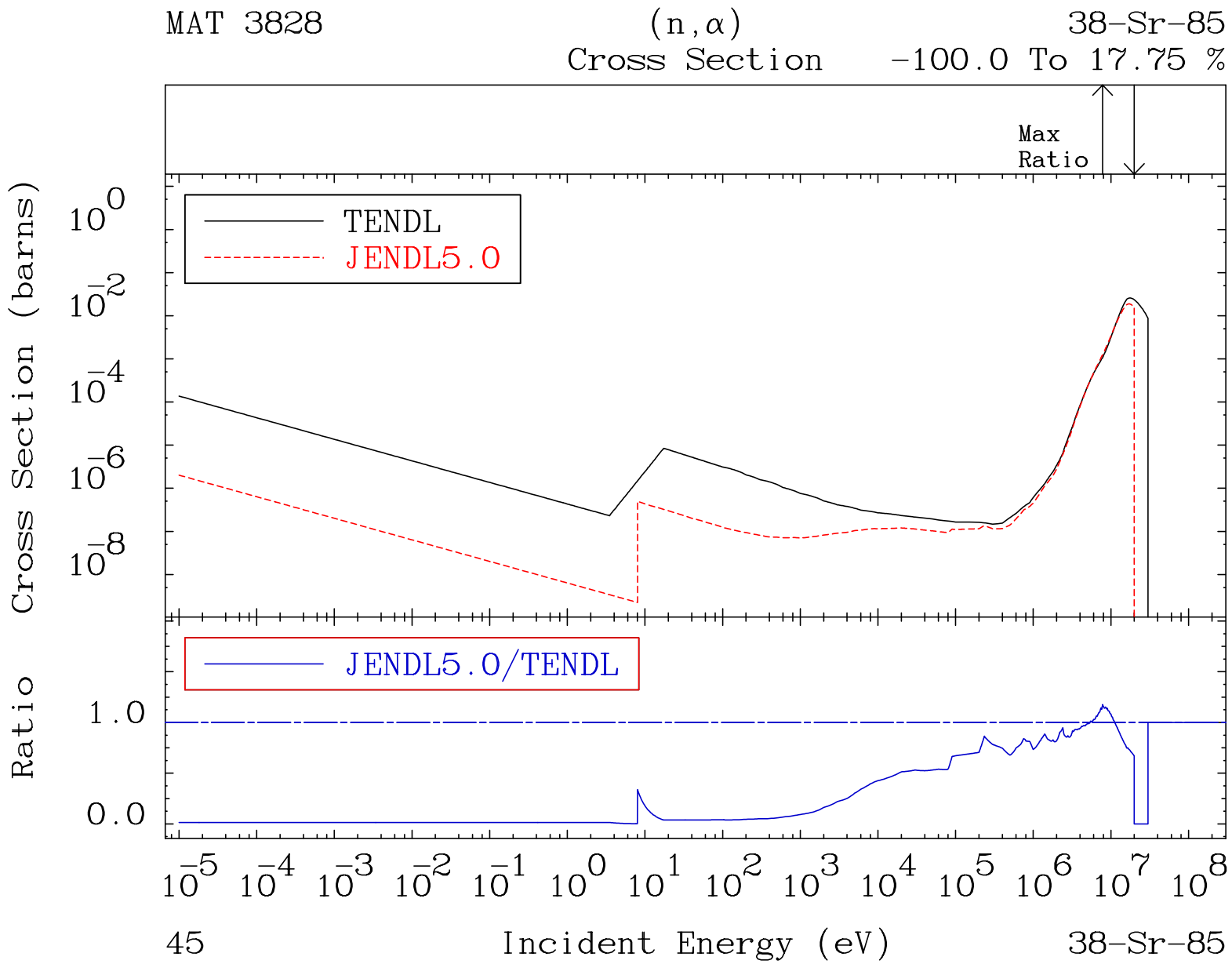

MAT 3828
(n,γ)
Cross Section
38-Sr-85
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
20
10
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
40
Incident Energy (eV)
38-Sr-85

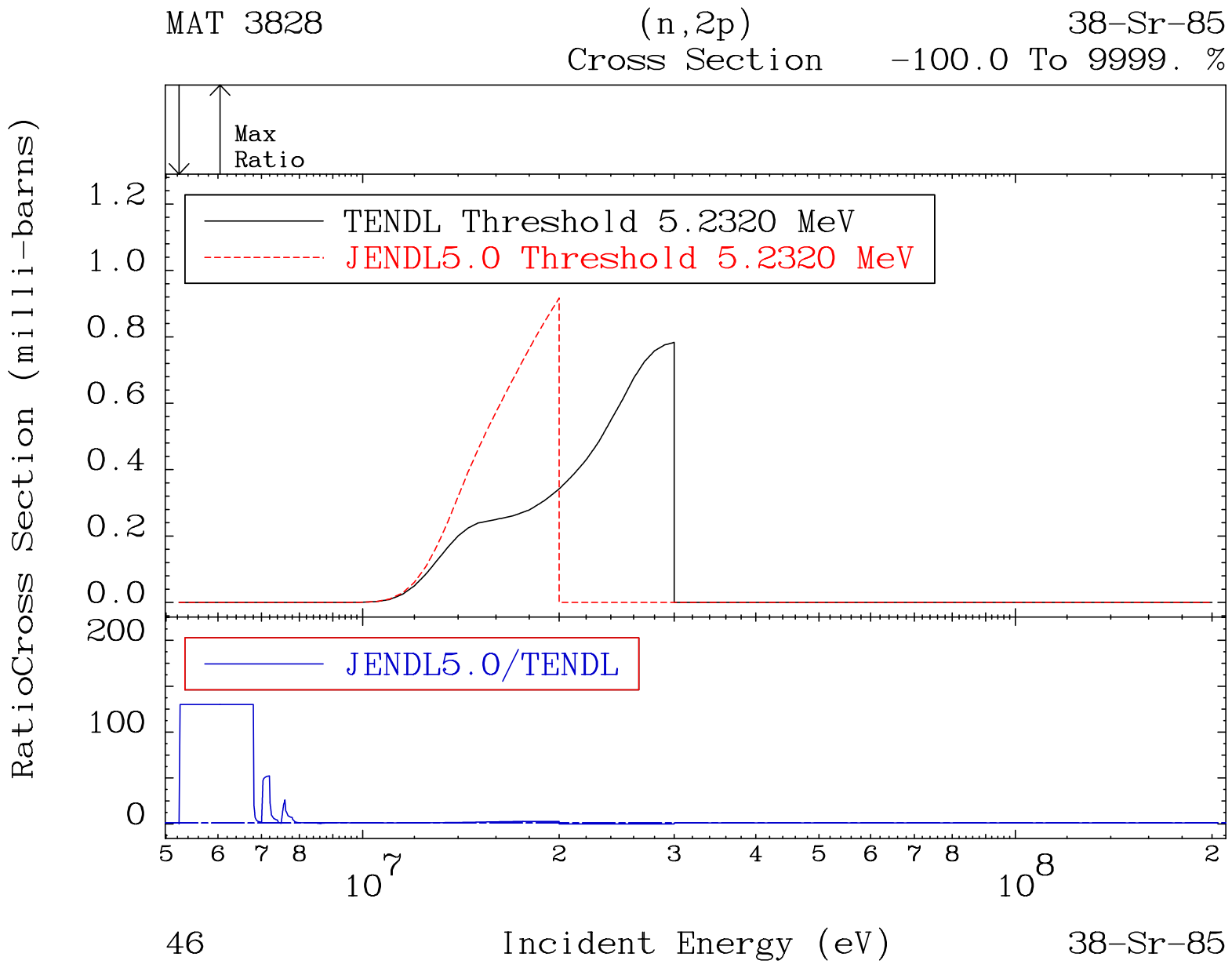

MAT 3828
(n,p)
38-Sr-85
Cross Section
-100.0 To 1139. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
38-Sr-85

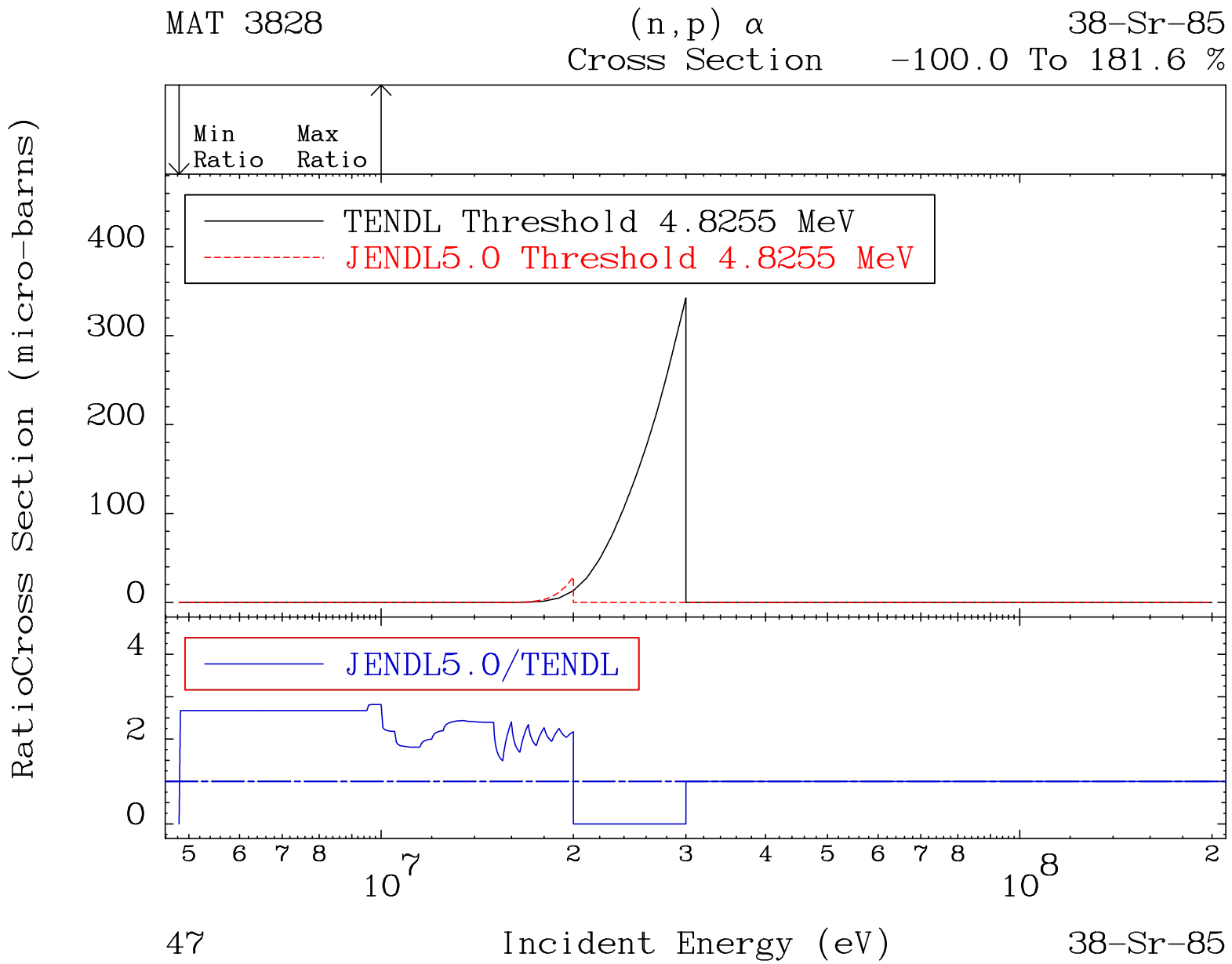

MAT 3828
(n,d)
38-Sr-85
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.4848 MeV
JENDL5.0 Threshold 6.4848 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
200
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
42
Incident Energy (eV)
38-Sr-85

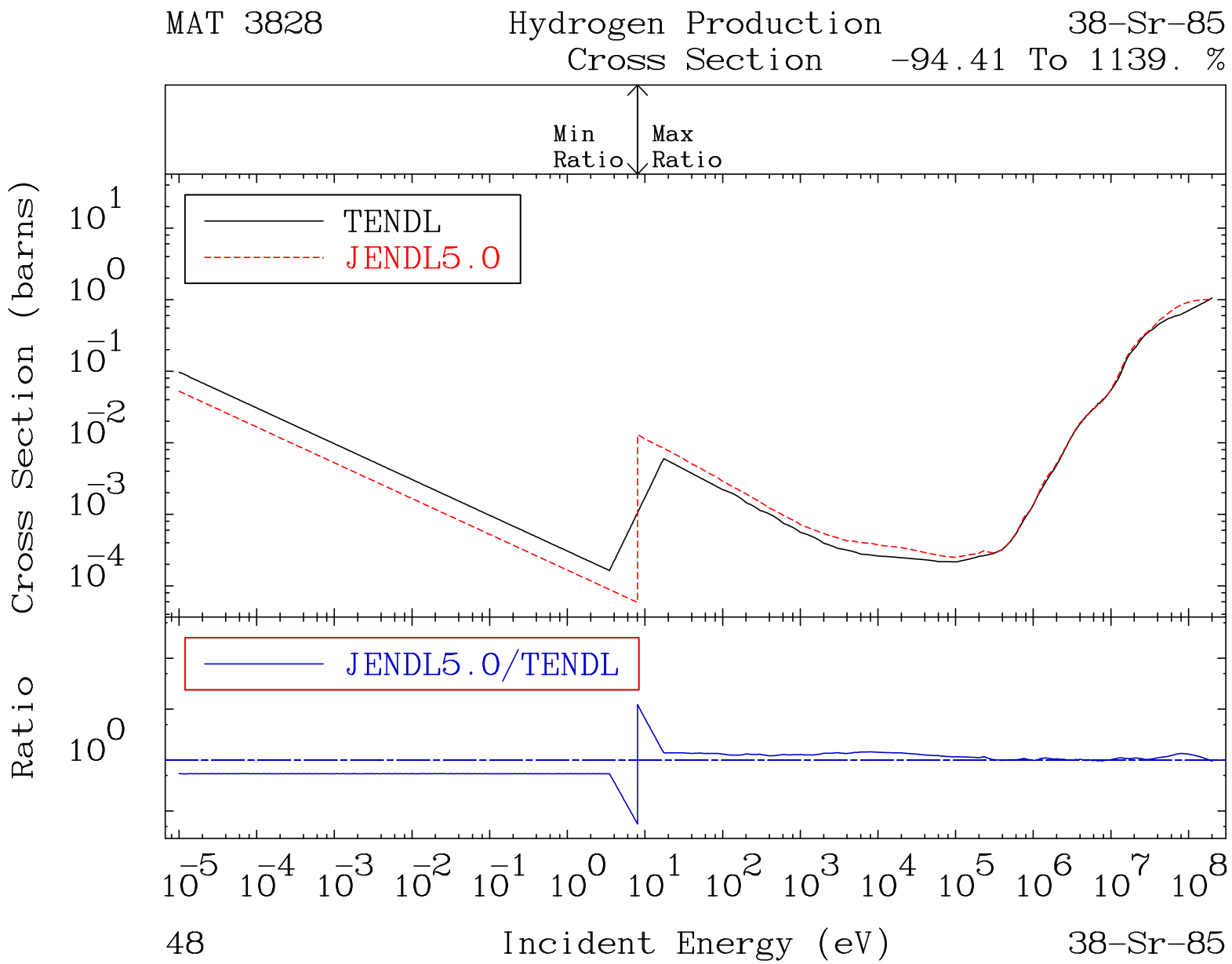

MAT 3828
(n,t)
38-Sr-85
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 9.0170 MeV
JENDL5.0 Threshold 9.0170 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
80
40
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
43
Incident Energy (eV)
38-Sr-85

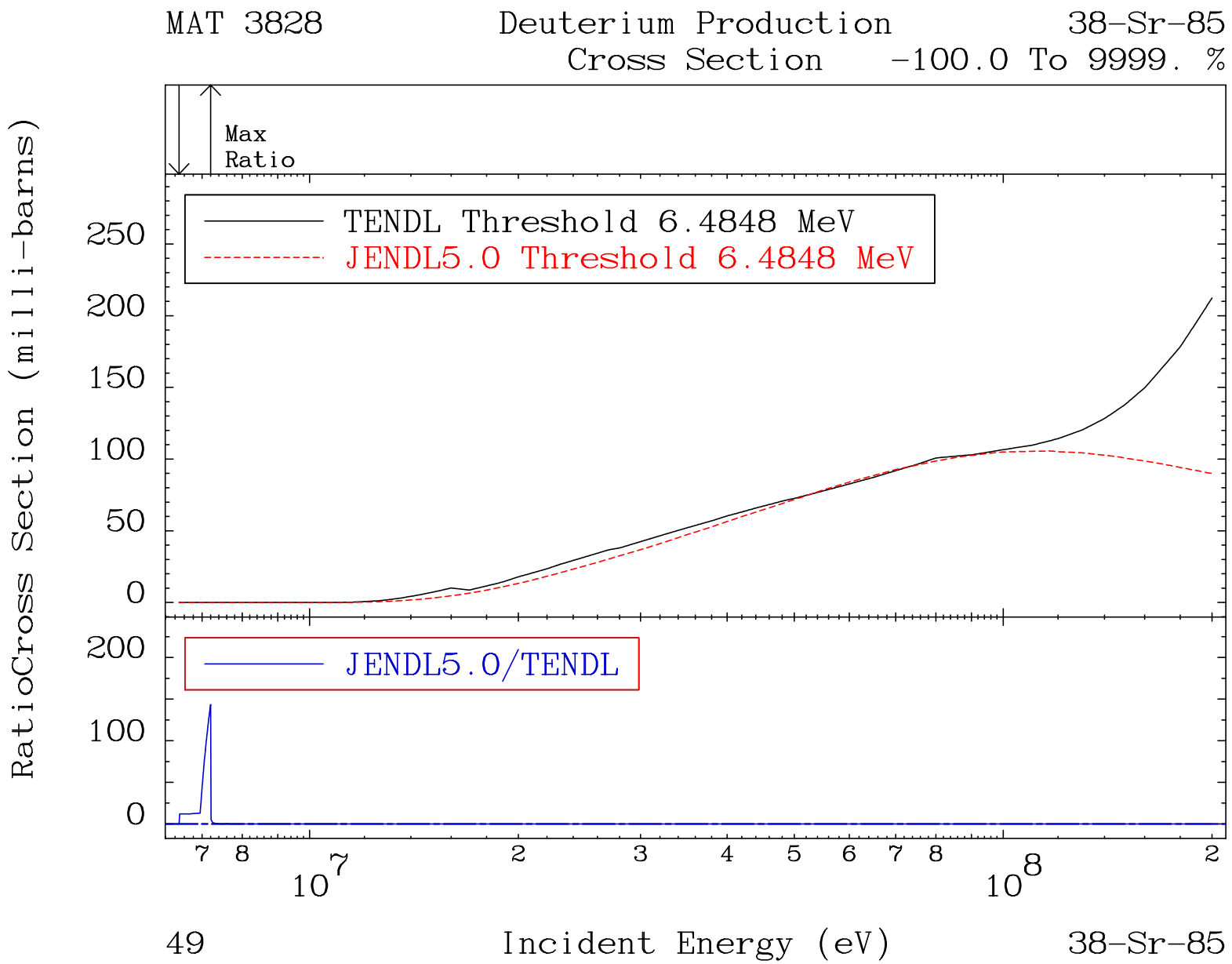

MAT 3828
(n,He-3)
38-Sr-85
Cross Section
-100.0 To 8094. %
Min Ratio
Max Ratio
TENDL Threshold 8.0673 MeV
JENDL5.0 Threshold 8.0673 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
44
38-Sr-85

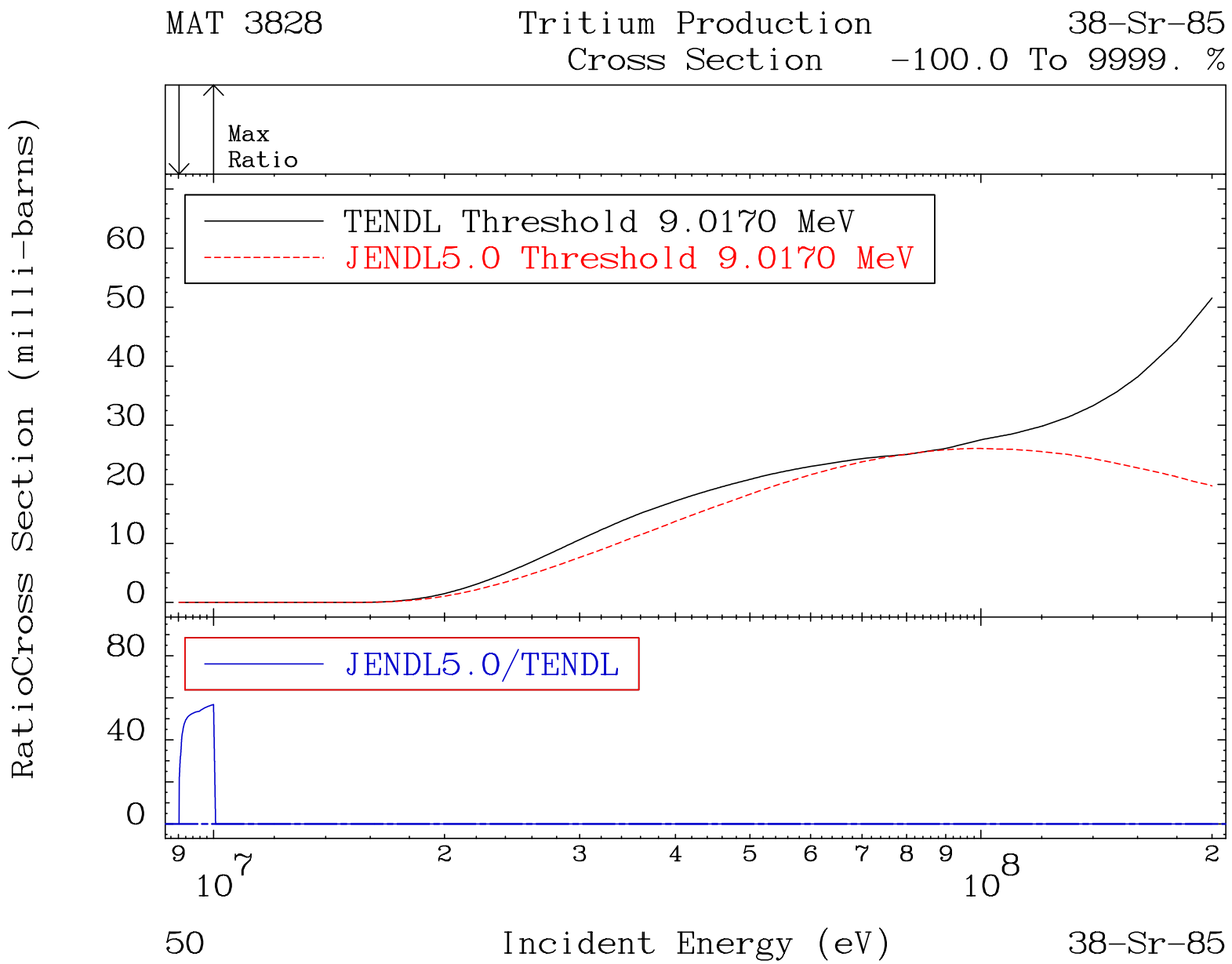

MAT 3828
(n,α)
Cross Section
38-Sr-85
-100.0 To 17.75 %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
38-Sr-85

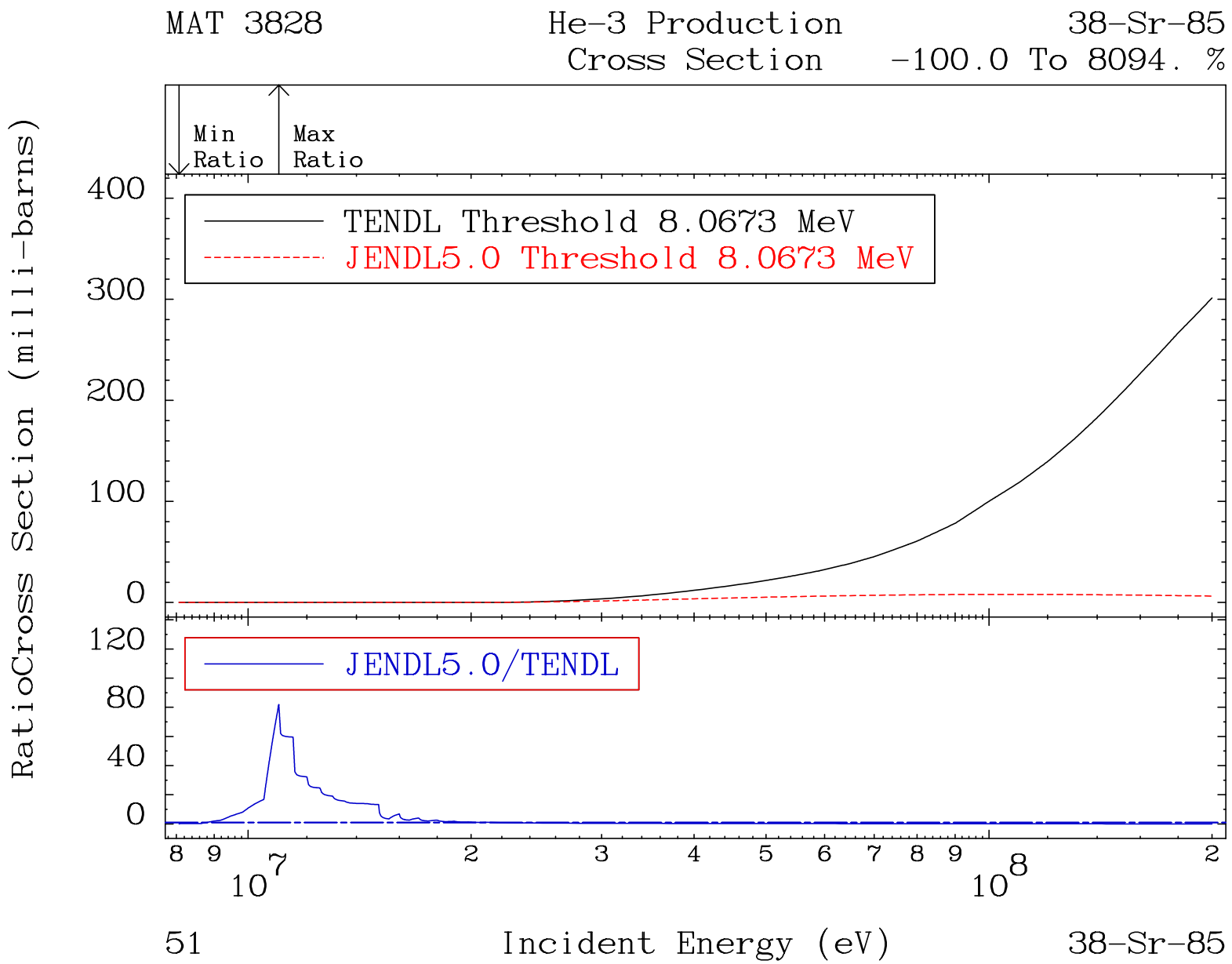

MAT 3828
(n,2p)
38-Sr-85
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.2320 MeV
JENDL5.0 Threshold 5.2320 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
200
100
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
38-Sr-85

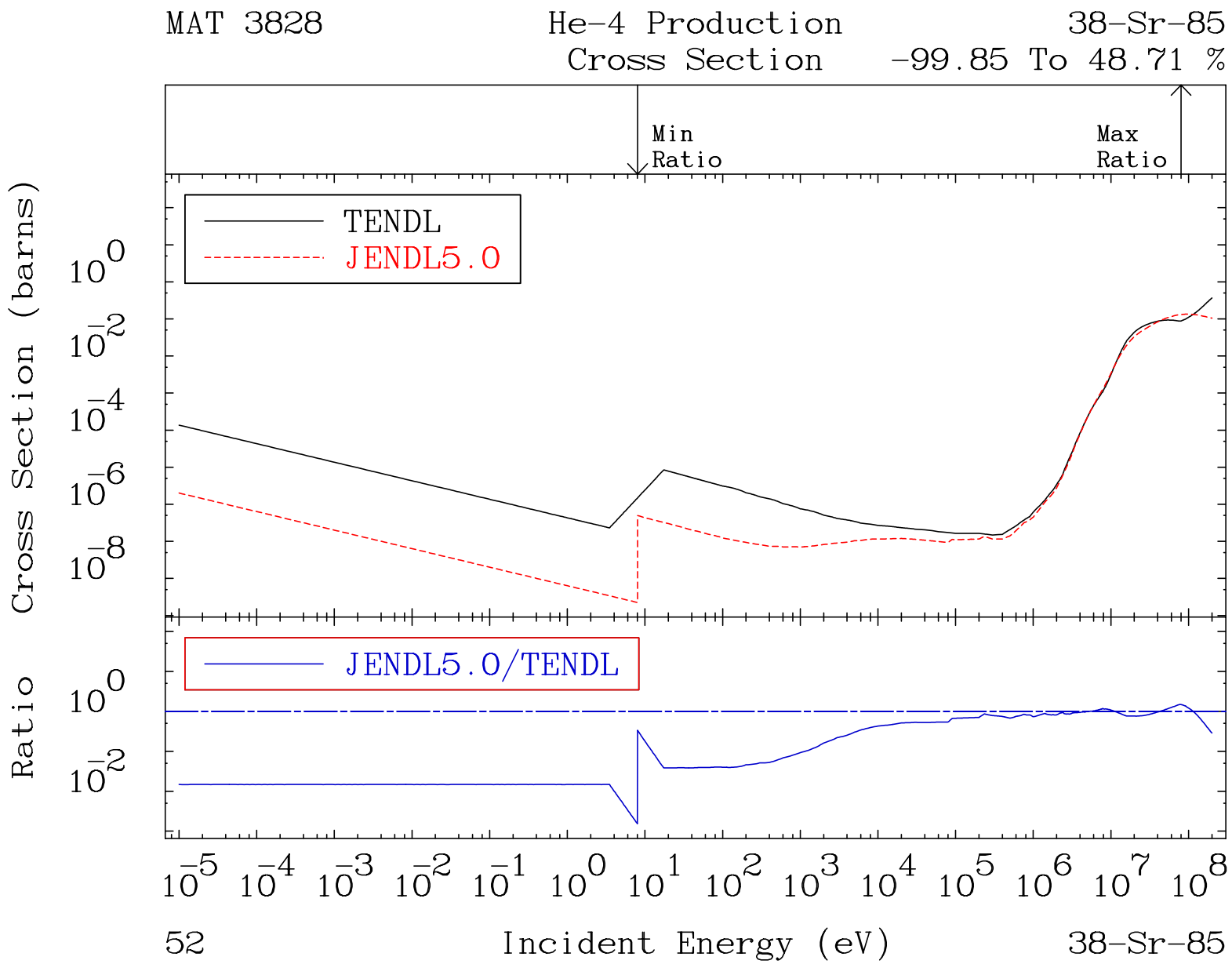

MAT 3828
(n,p) α
38-Sr-85
Cross Section
-100.0 To 181.6 %
Min Ratio
Max Ratio
TENDL Threshold 4.8255 MeV
JENDL5.0 Threshold 4.8255 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
400
300
200
100
0
4
2
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
38-Sr-85

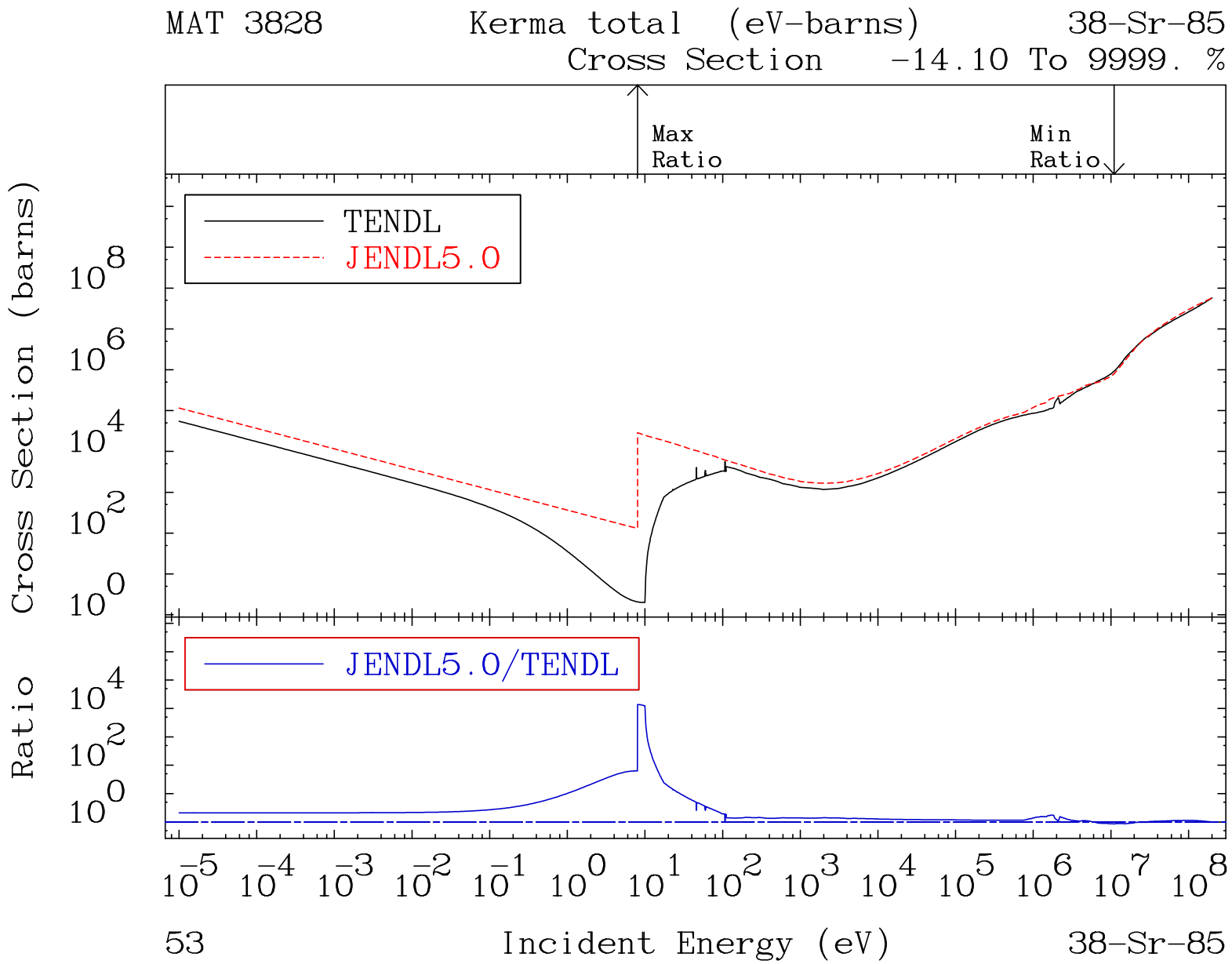

MAT 3828
Hydrogen Production
38-Sr-85
Cross Section -94.41 To 1139. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
38-Sr-85

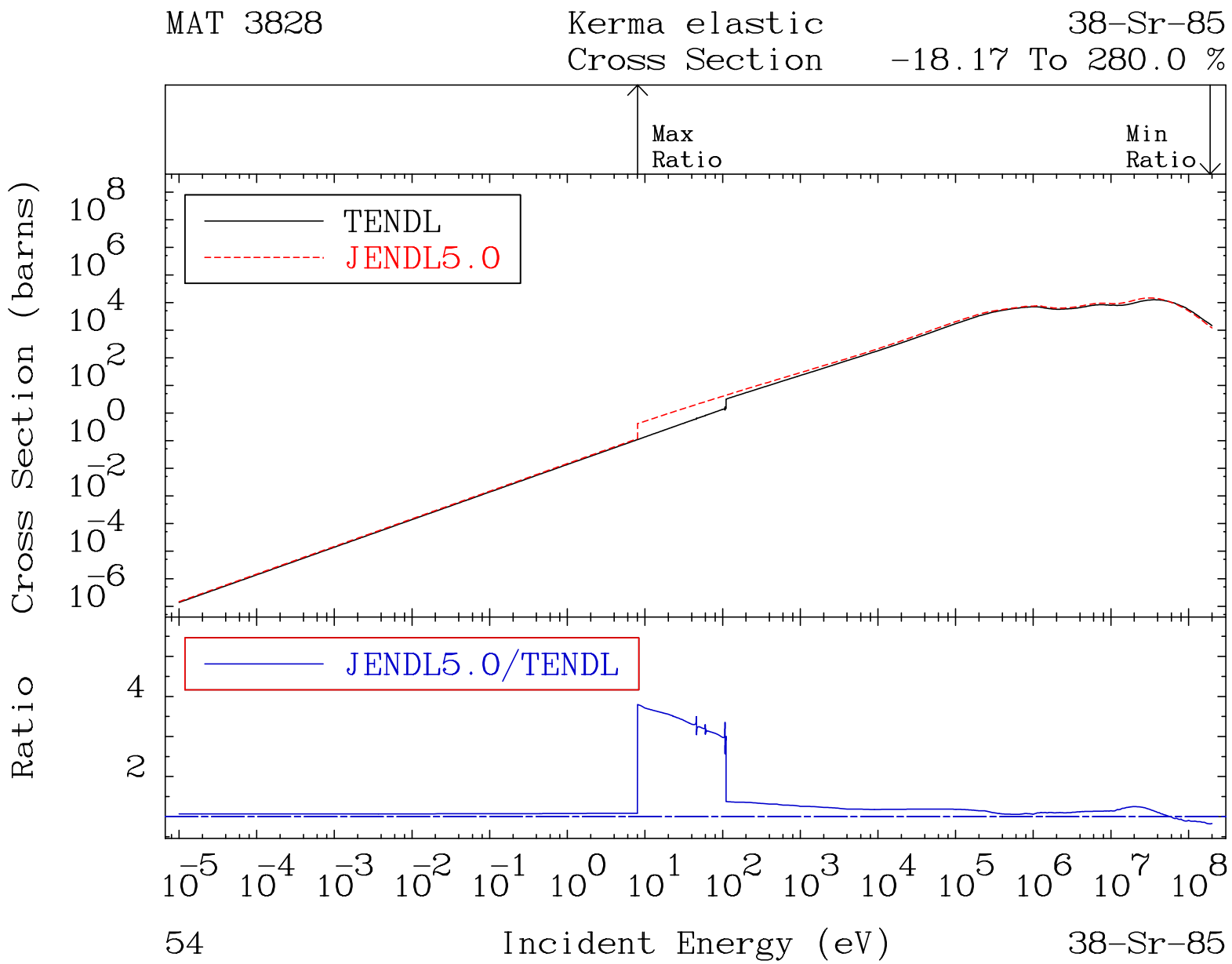

MAT 3828
Deuterium Production
38-Sr-85
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.4848 MeV
JENDL5.0 Threshold 6.4848 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
200
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
49
Incident Energy (eV)
38-Sr-85

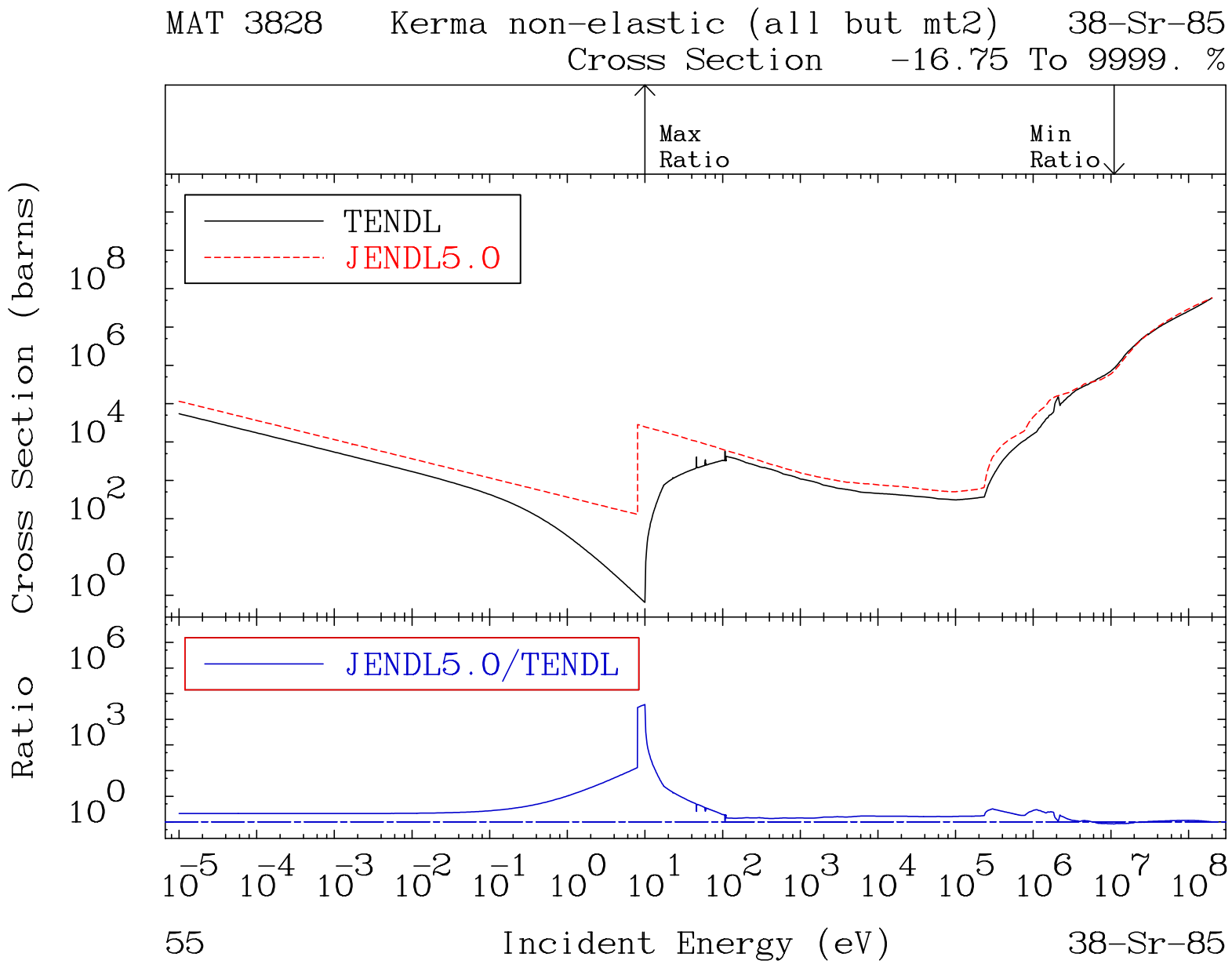

MAT 3828
Tritium Production
38-Sr-85
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 9.0170 MeV
JENDL5.0 Threshold 9.0170 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
80
40
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
50
Incident Energy (eV)
38-Sr-85

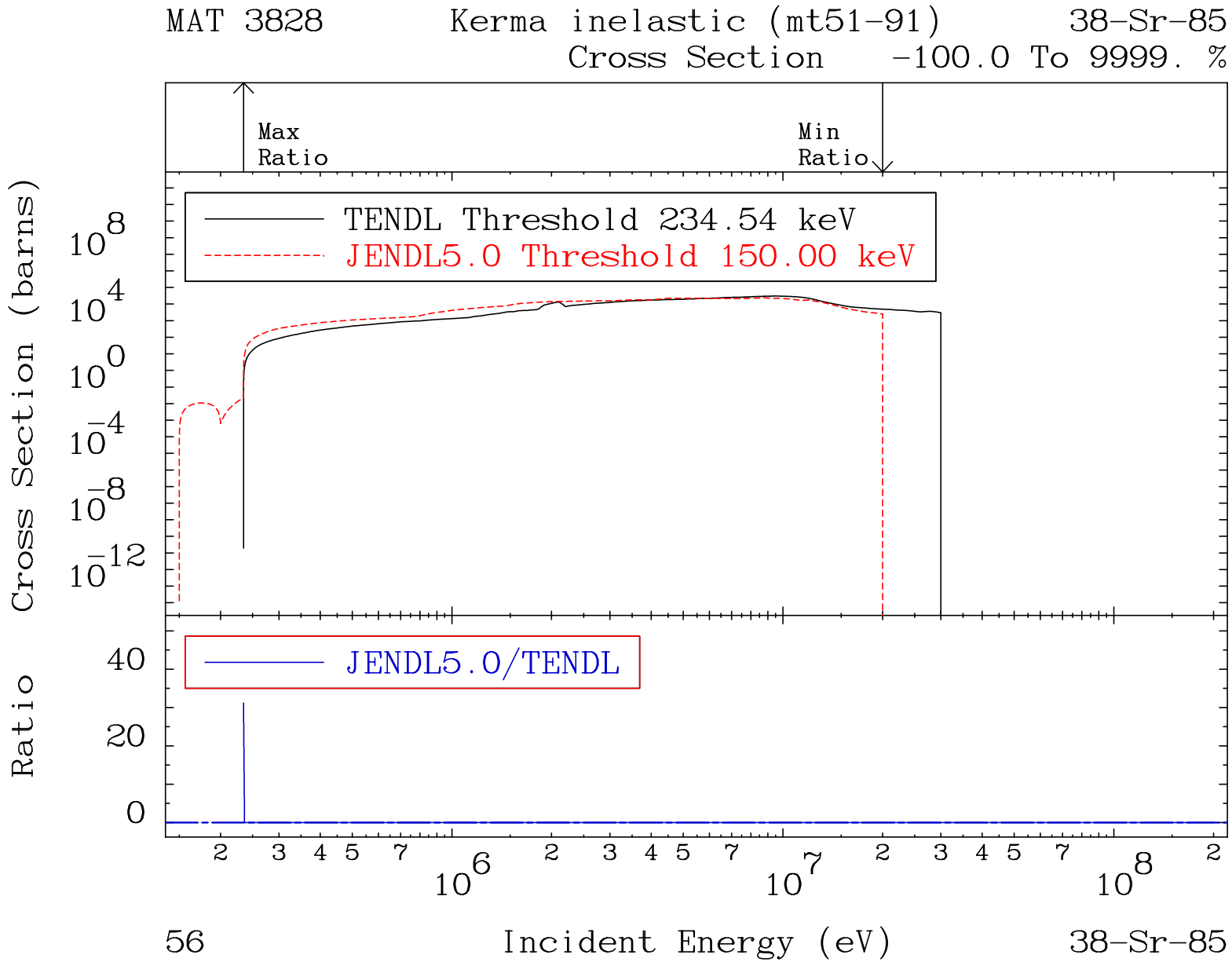

MAT 3828
He-3 Production
Cross Section
38-Sr-85
-100.0 To 8094. %
Min Ratio
Max Ratio
TENDL Threshold 8.0673 MeV
JENDL5.0 Threshold 8.0673 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
51
38-Sr-85

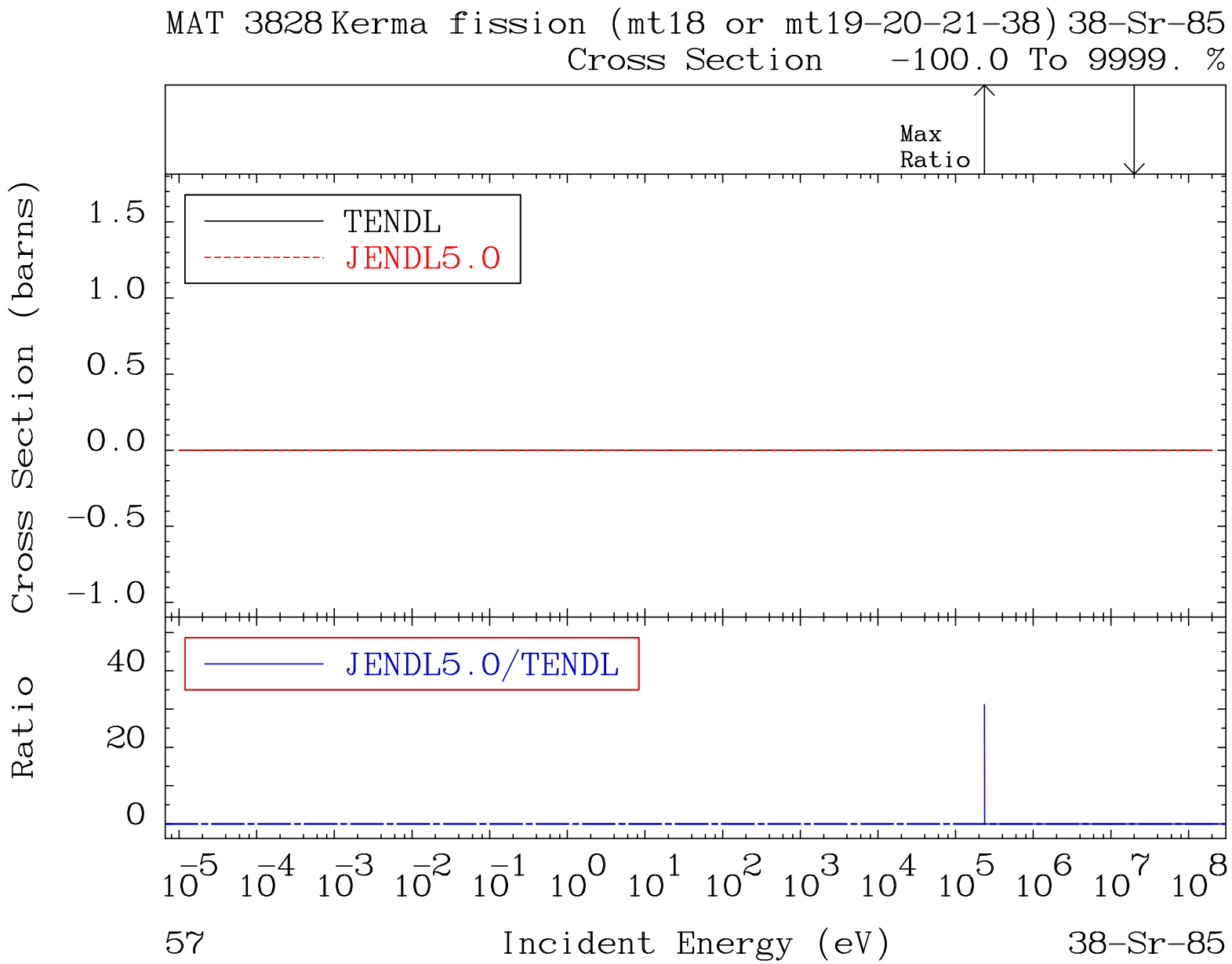

MAT 3828
He-4 Production
Cross Section
38-Sr-85
-99.85 To 48.71 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
38-Sr-85

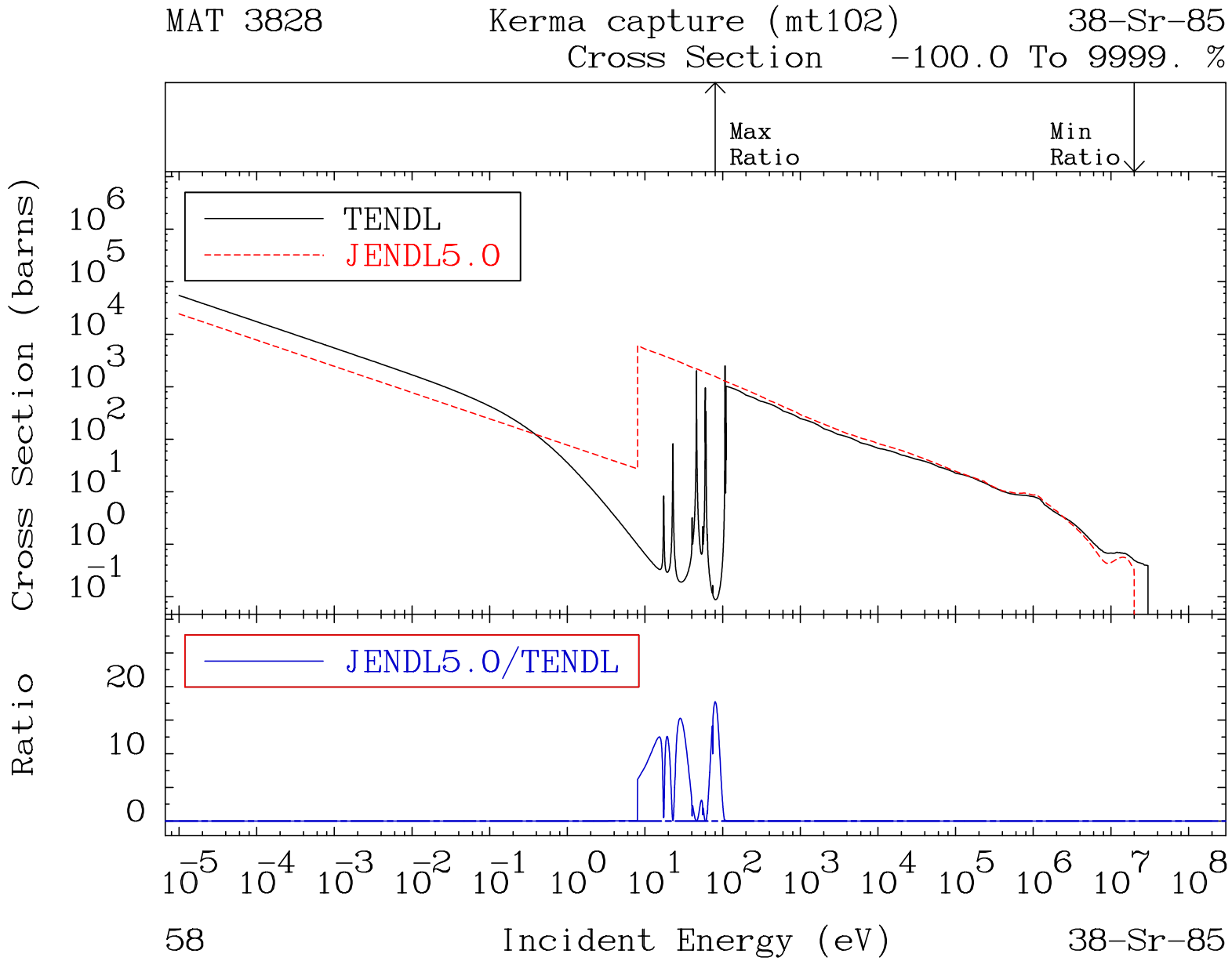

MAT 3828
Kerma total (eV-barns)
38-Sr-85
Cross Section -14.10 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
53
Incident Energy (eV)
38-Sr-85

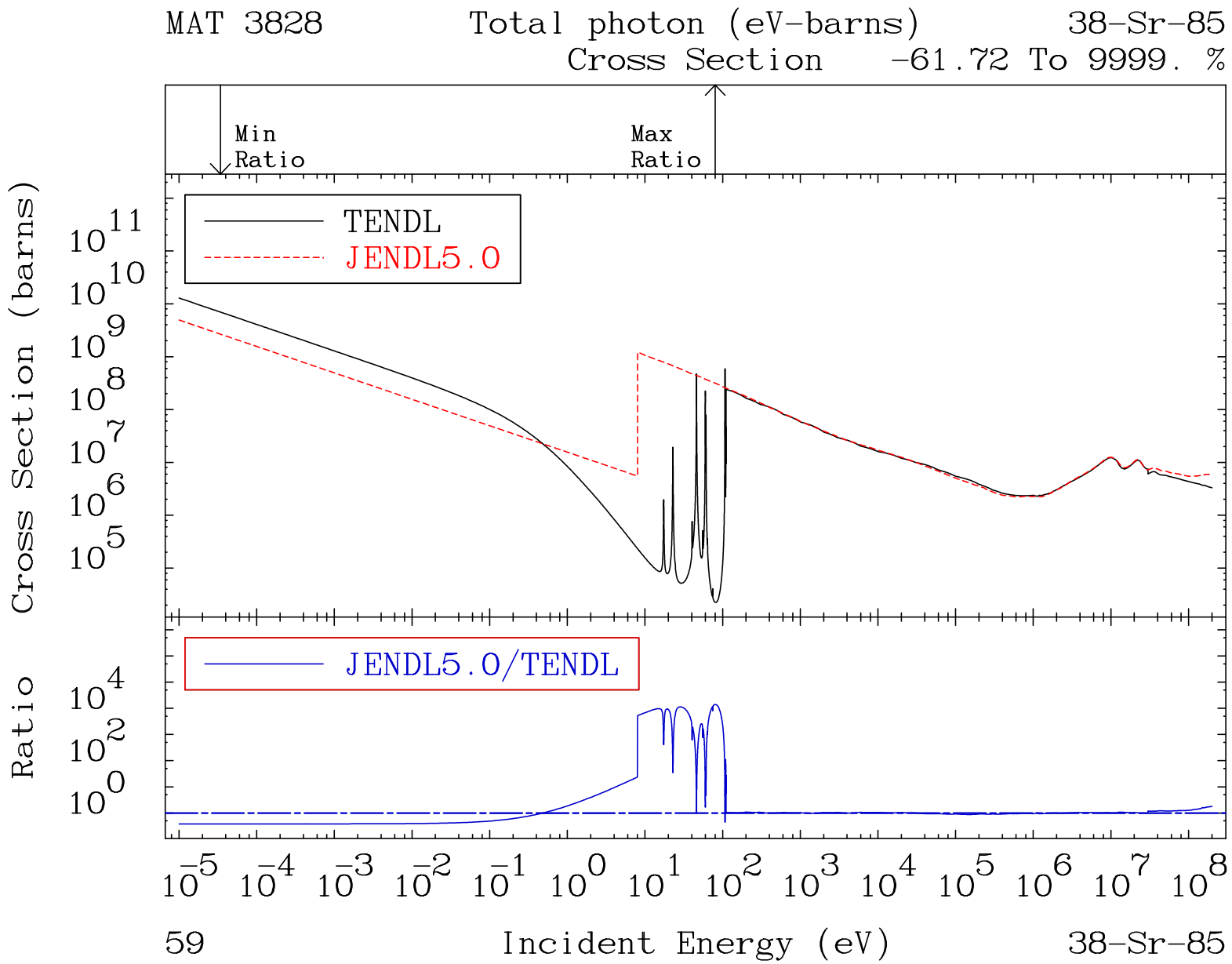

MAT 3828
Kerma elastic
Cross Section
38-Sr-85
-18.17 To 280.0 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
38-Sr-85

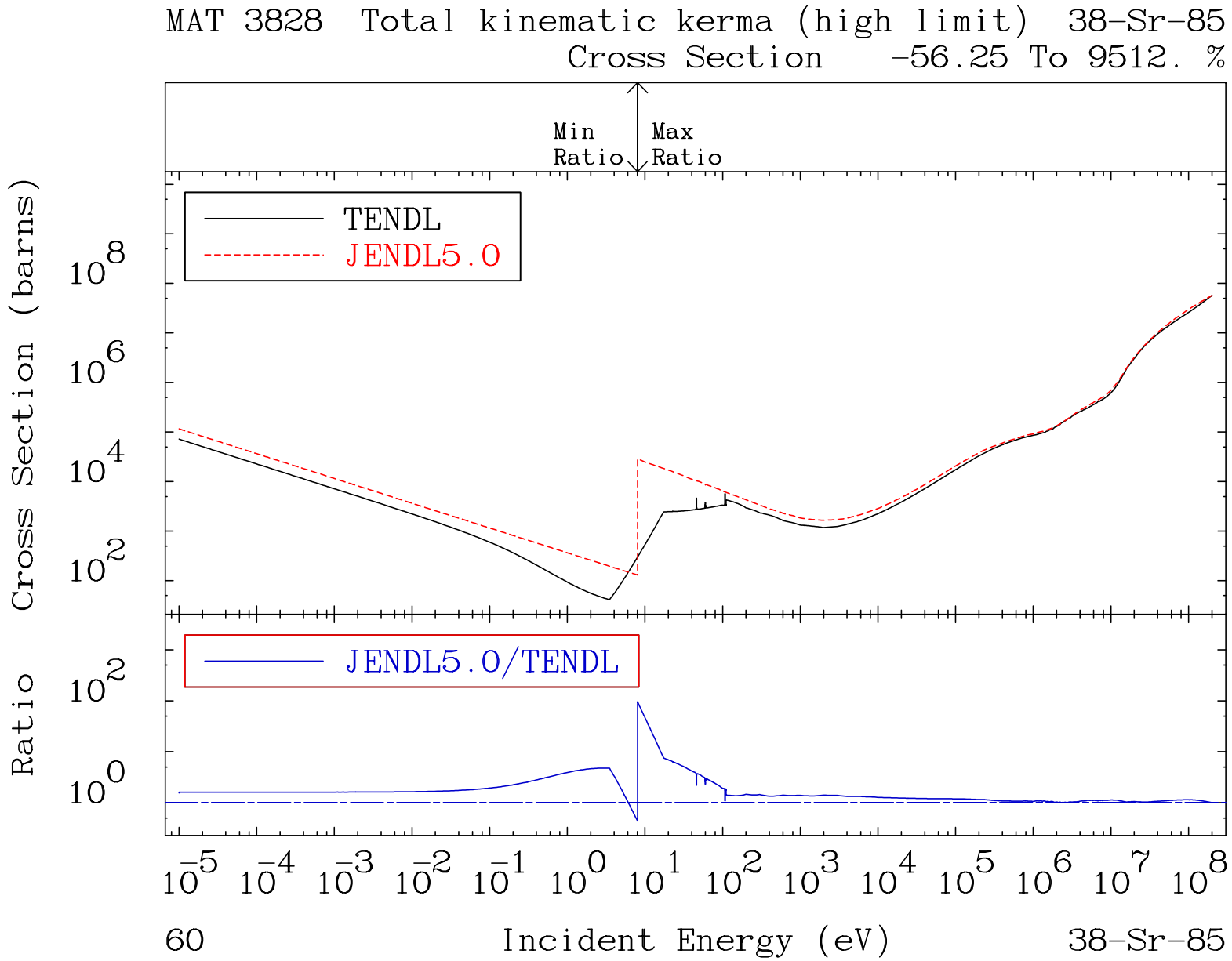

MAT 3828 Kerma non-elastic (all but mt2) 38-Sr-85
Cross Section -16.75 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
38-Sr-85

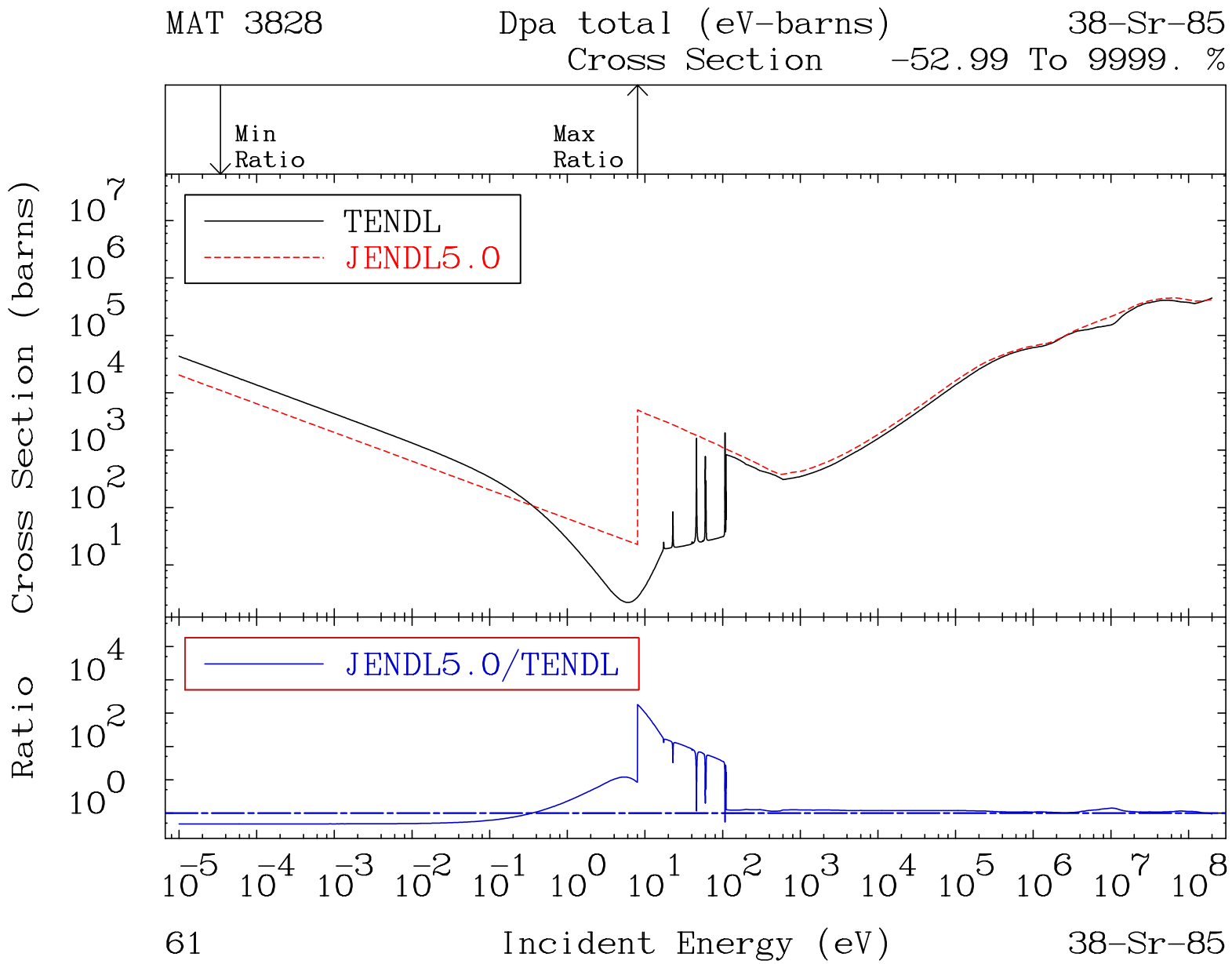

MAT 3828
Kerma inelastic (mt51-91)
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 234.54 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
38-Sr-85

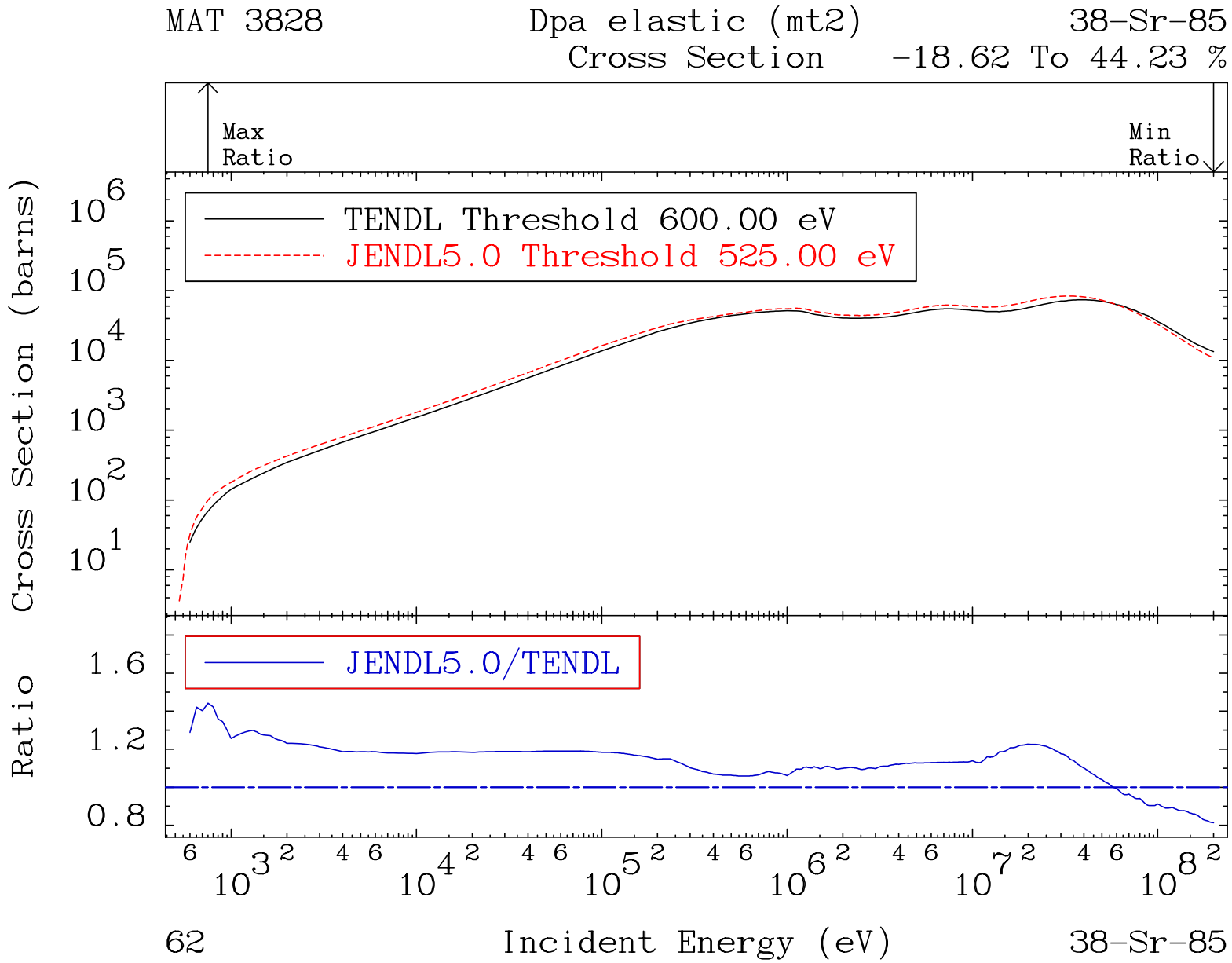

MAT 3828 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-85
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
40
20
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
57
Incident Energy (eV)
38-Sr-85

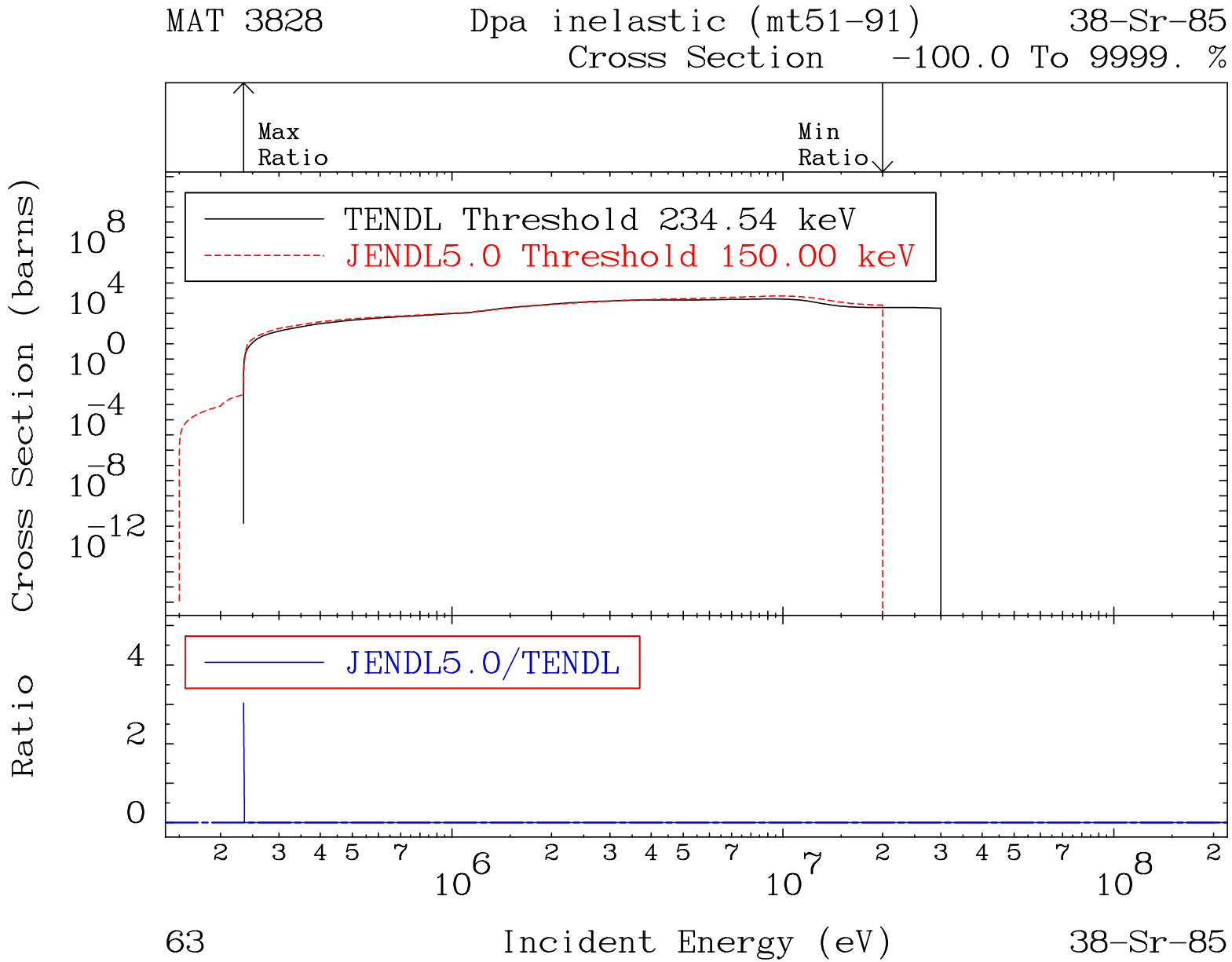

MAT 3828
Kerma capture (mt102)
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
38-Sr-85

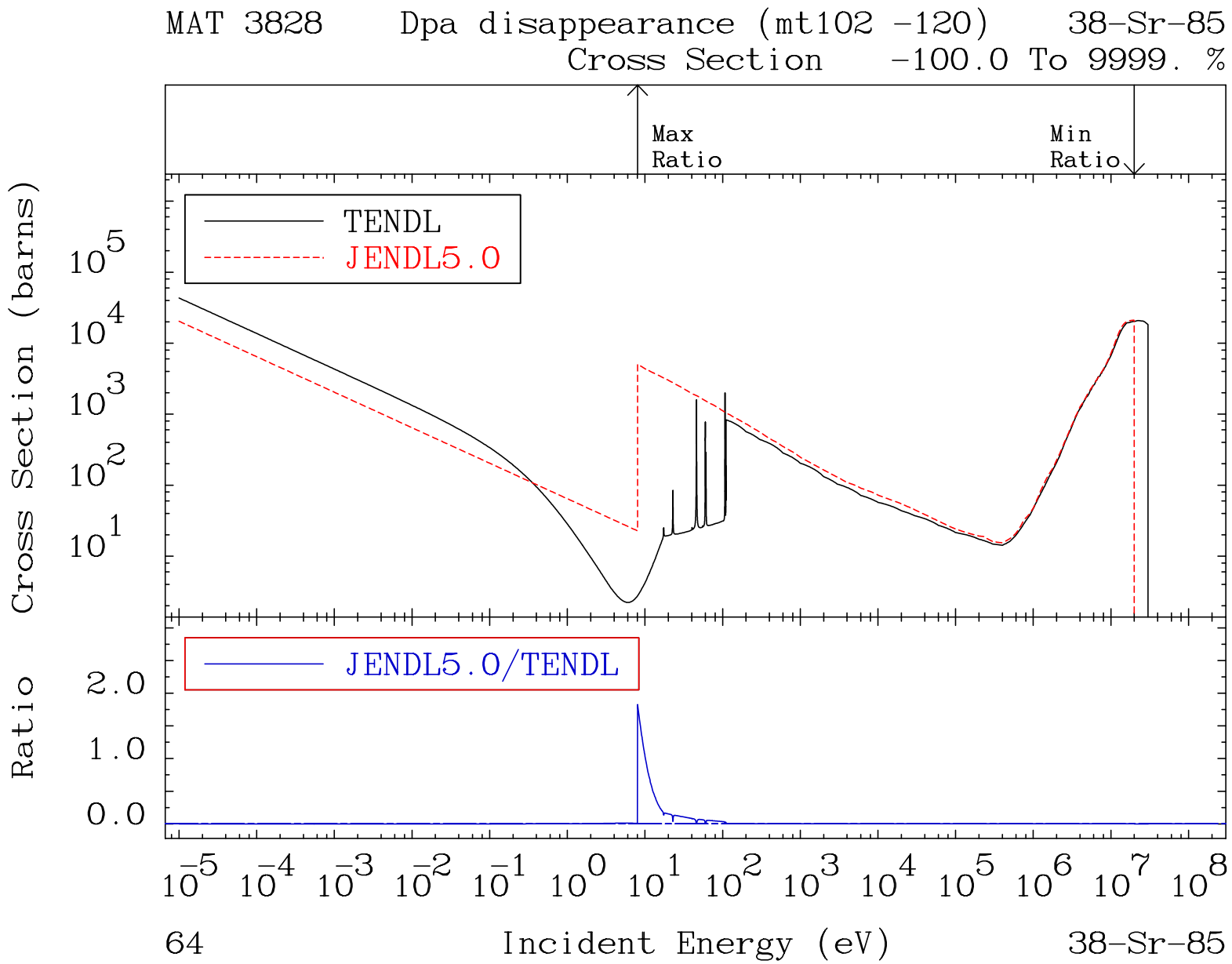

MAT 3828
Total photon (eV-barns)
38-Sr-85
Cross Section -61.72 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
38-Sr-85

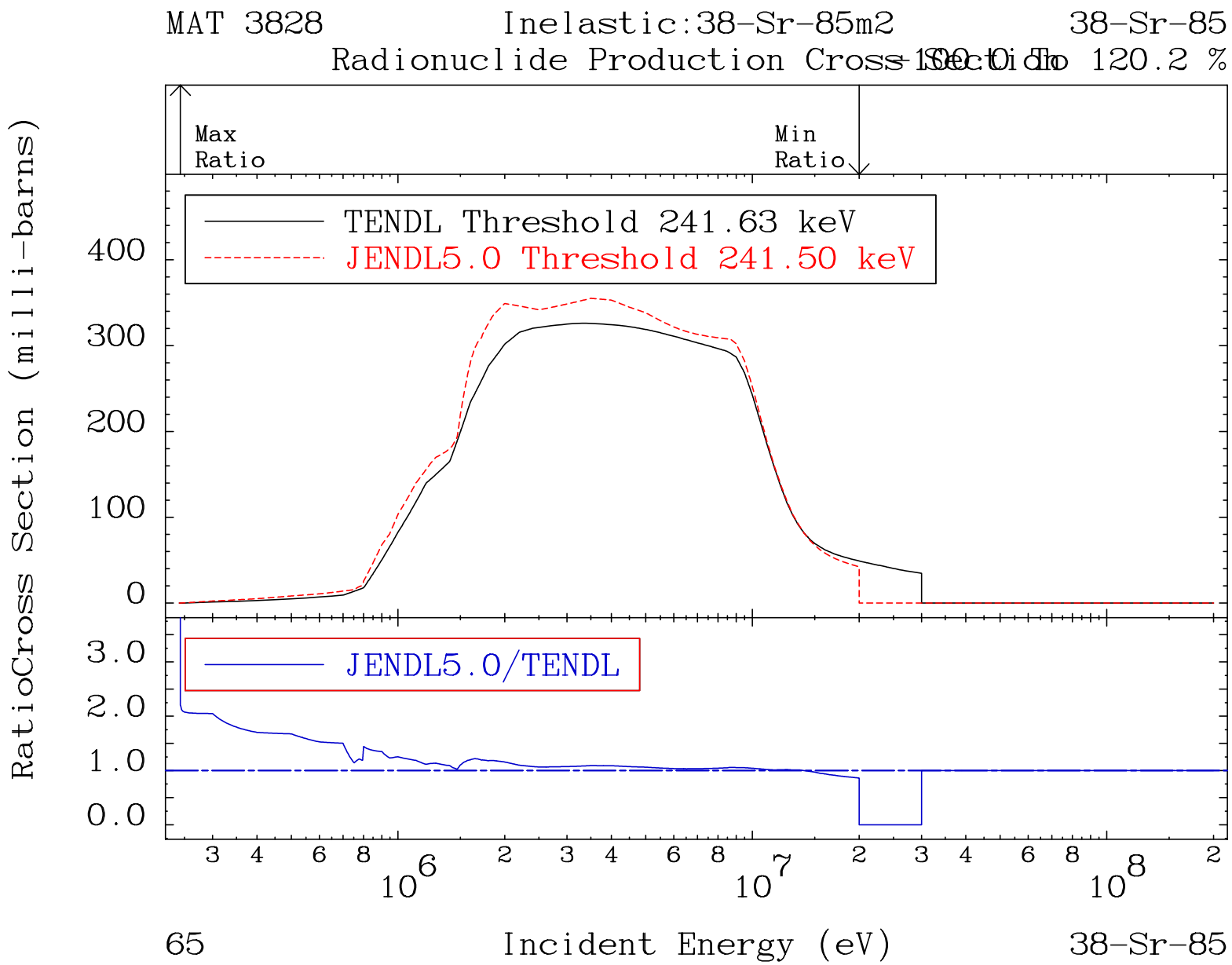

MAT 3828 Total kinematic kerma (high limit) 38-Sr-85
Cross Section -56.25 To 9512. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
60
38-Sr-85

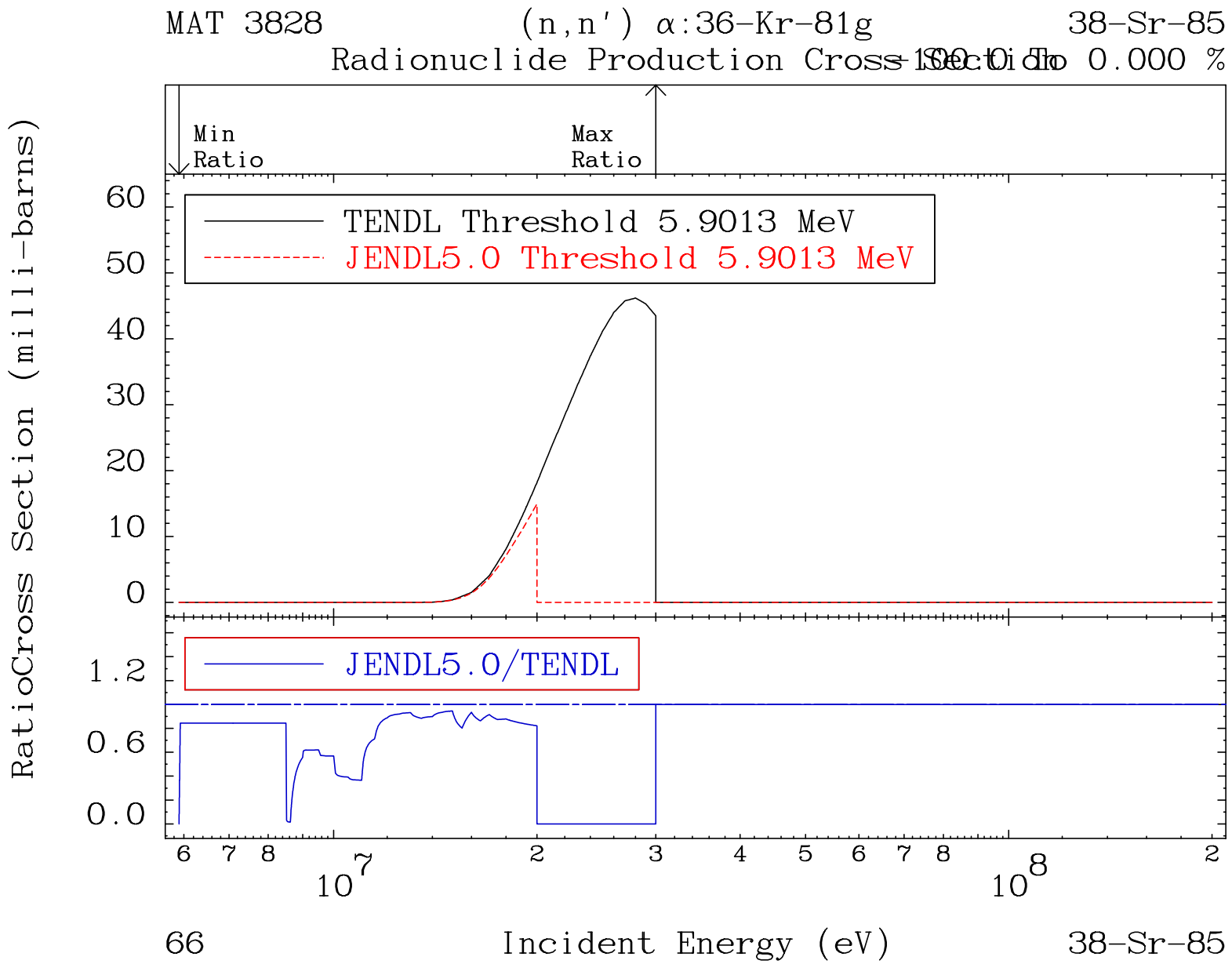

MAT 3828
Dpa total (eV-barns)
38-Sr-85
Cross Section -52.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
38-Sr-85

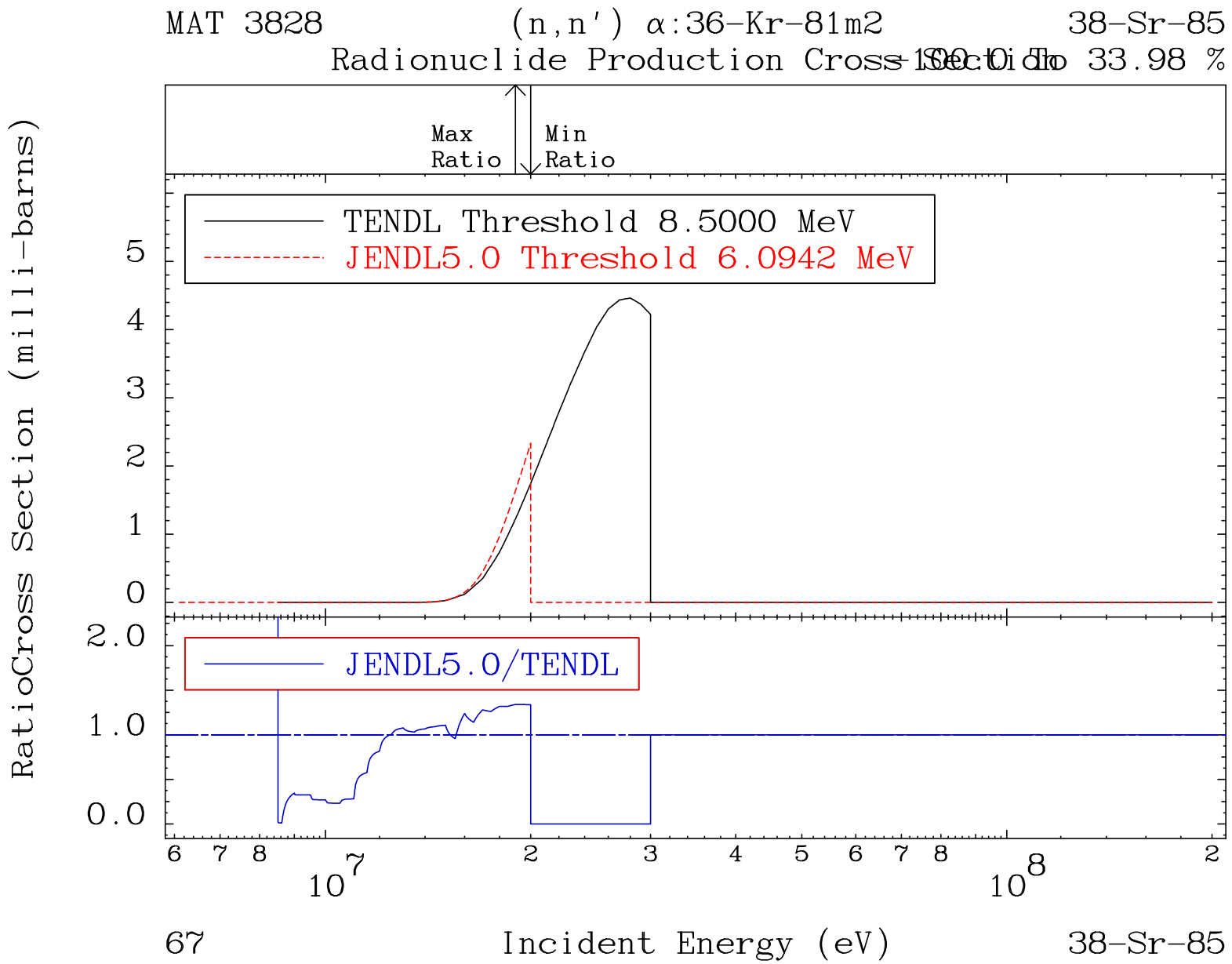

MAT 3828
Dpa elastic (mt2)
Cross Section
38-Sr-85
-18.62 To 44.23 %
Max
Ratio
Min
Ratio
TENDL Threshold 600.00 eV
JENDL5.0 Threshold 525.00 eV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
38-Sr-85

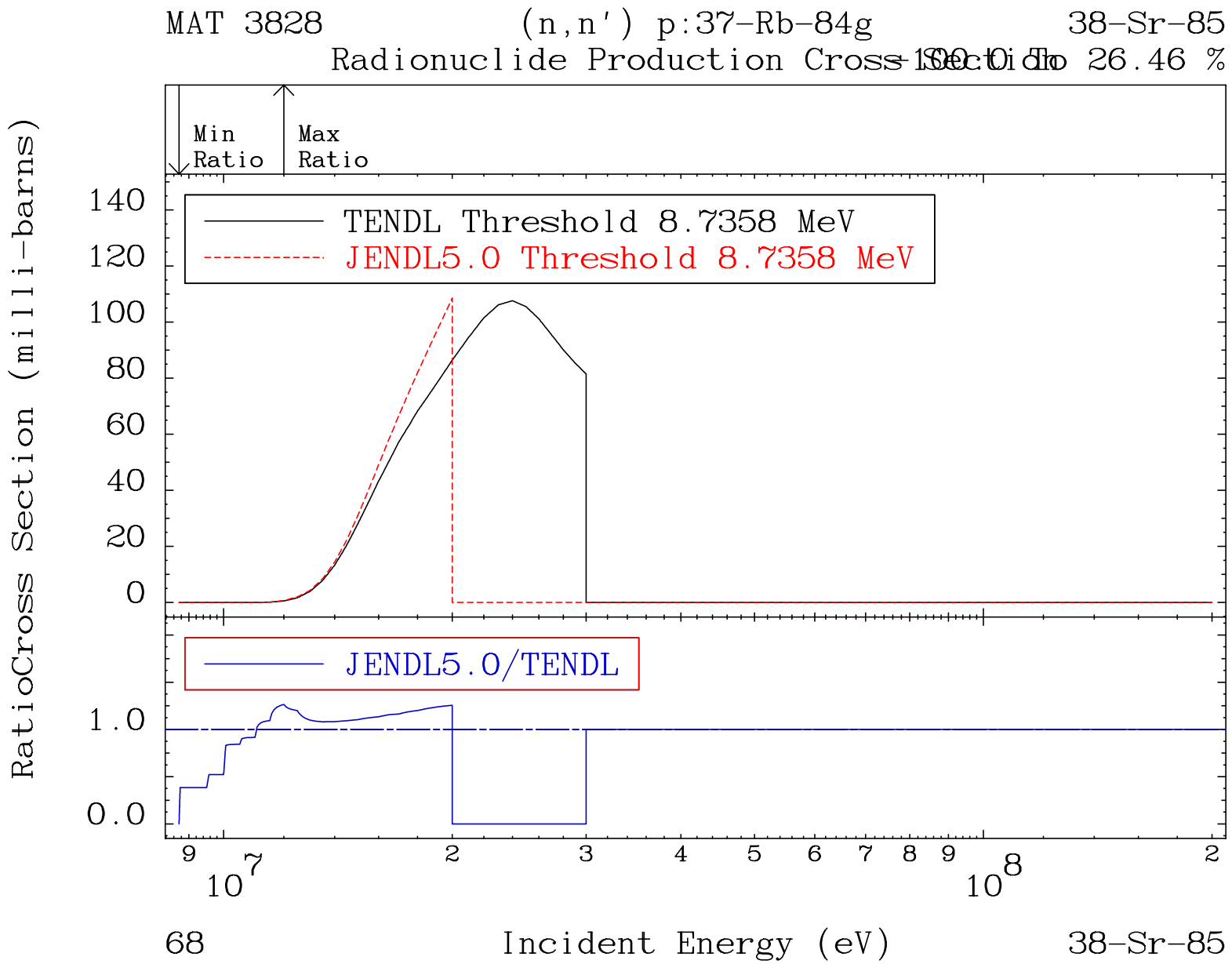

MAT 3828
Dpa inelastic (mt51-91)
38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 234.54 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
63
38-Sr-85

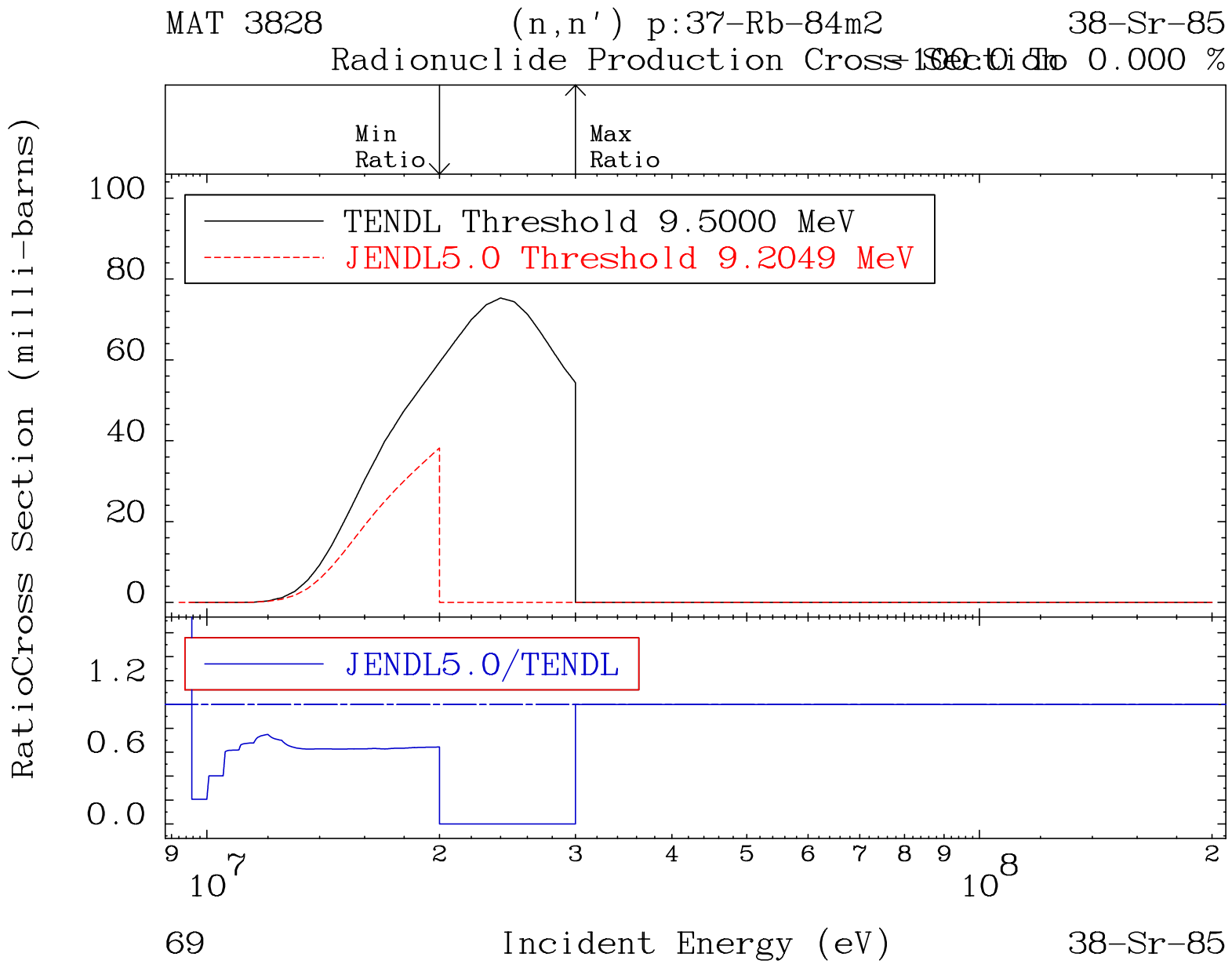

MAT 3828 Dpa disappearance (mt102 -120) 38-Sr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64
38-Sr-85

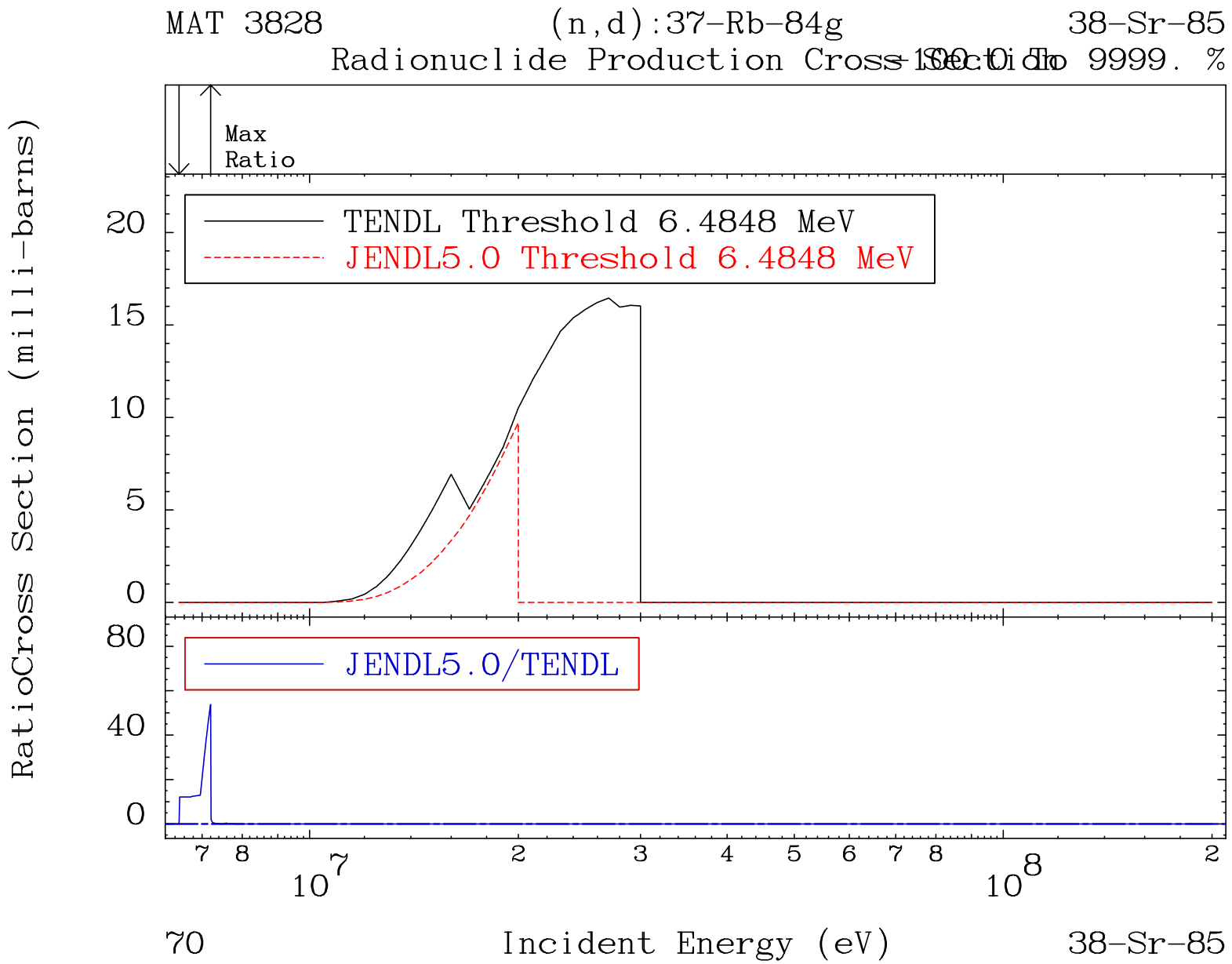

MAT 3828
Inelastic:38-Sr-85m2
38-Sr-85
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 241.63 keV
JENDL5.0 Threshold 241.50 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
38-Sr-85

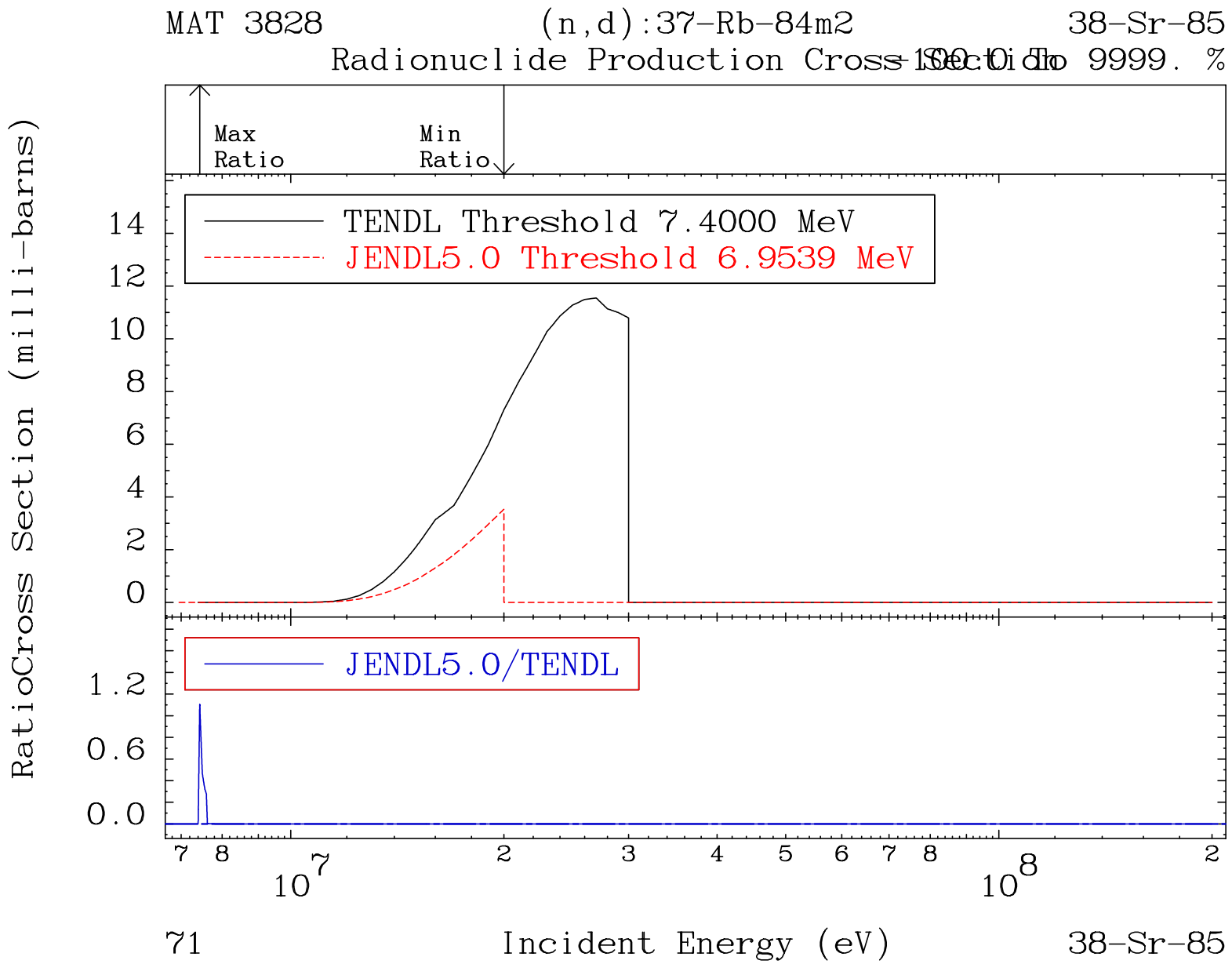

MAT 3828
(n,n') α:36-Kr-81g
38-Sr-85
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 5.9013 MeV
JENDL5.0 Threshold 5.9013 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.6
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
66
Incident Energy (eV)
38-Sr-85

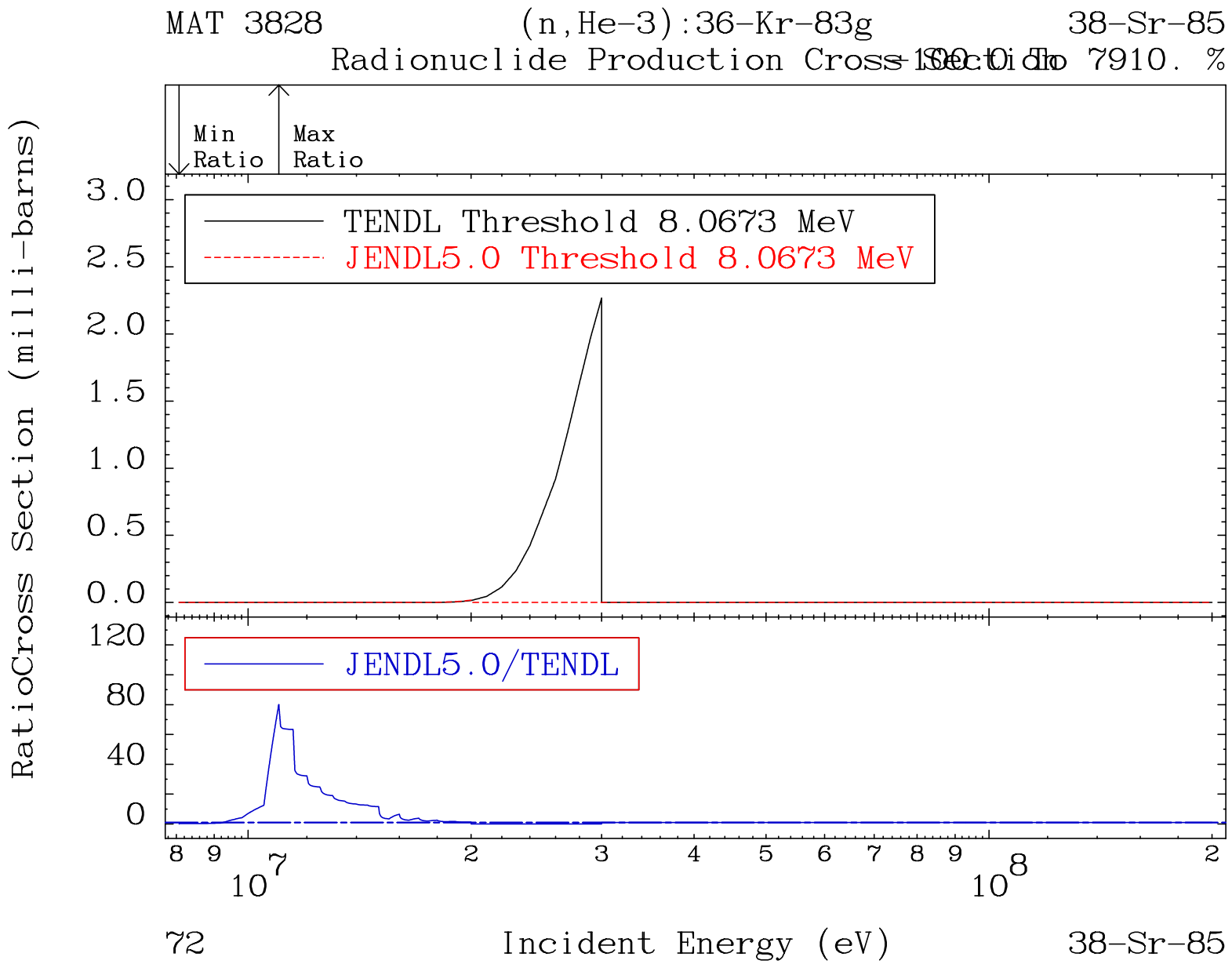

MAT 3828
(n,n') α:36-Kr-81m2
38-Sr-85
Radionuclide Production Cross Section To 33.98 %
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 6.0942 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
38-Sr-85

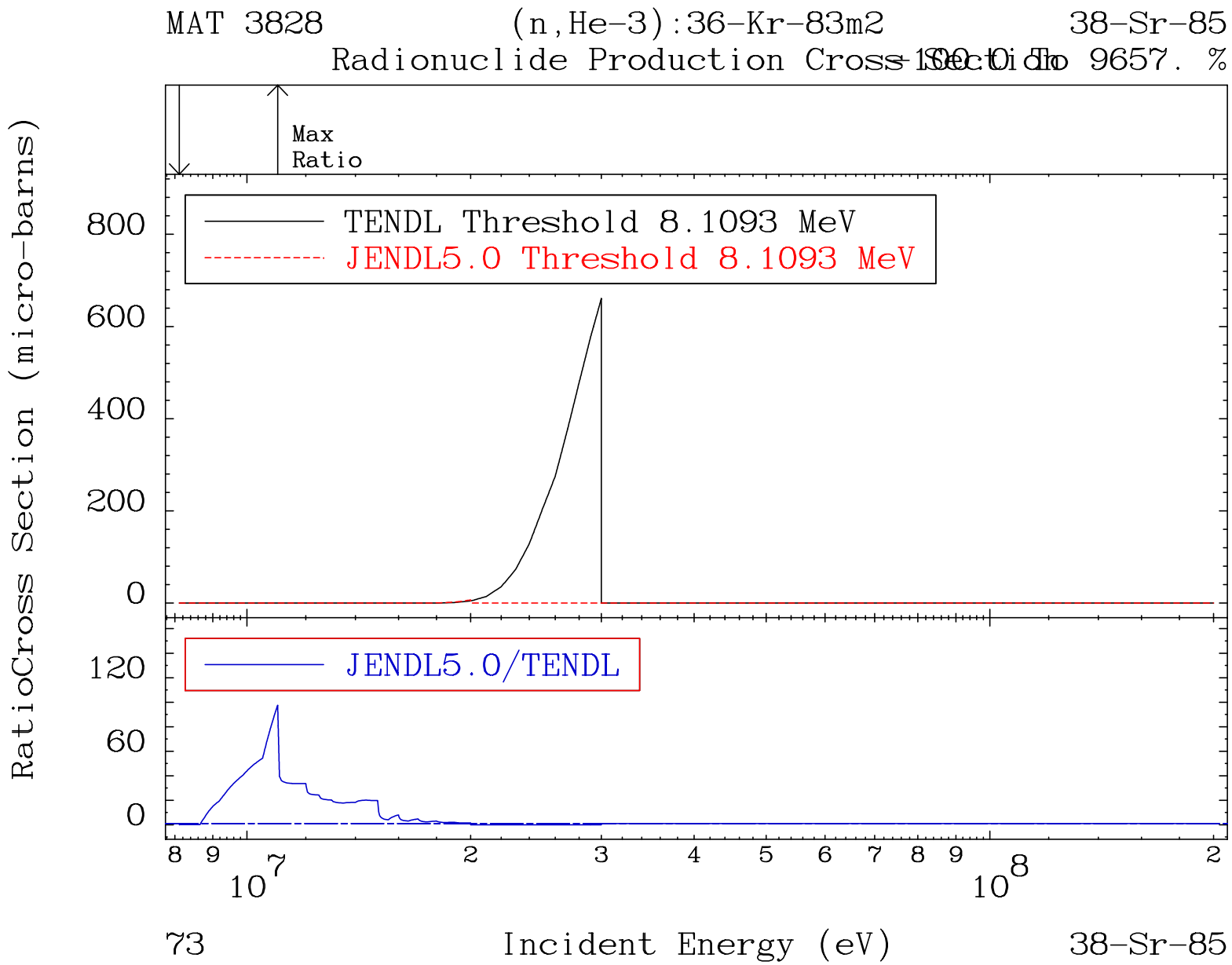

MAT 3828
(n,n') p:37-Rb-84g
38-Sr-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 8.7358 MeV
JENDL5.0 Threshold 8.7358 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
68
38-Sr-85

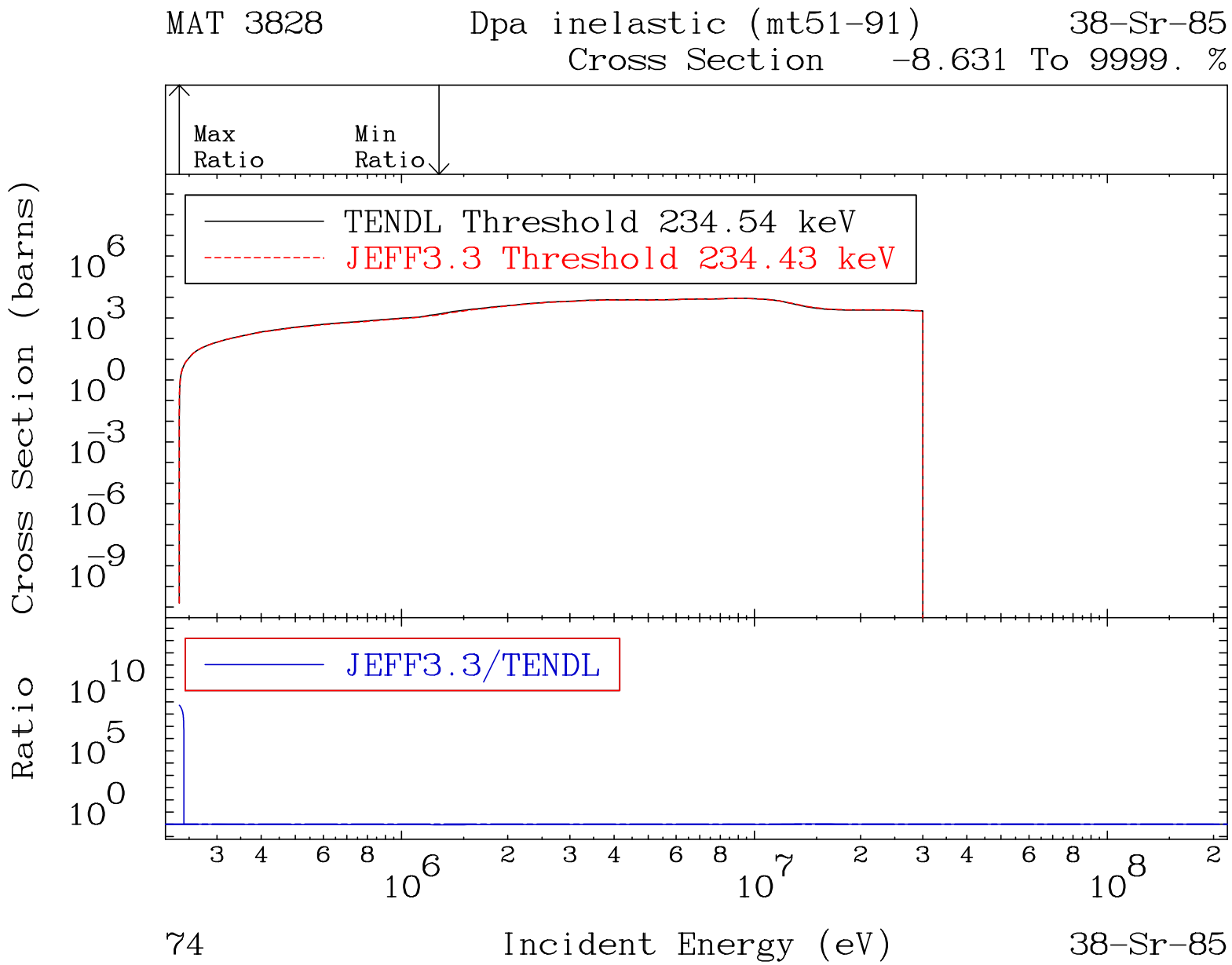

MAT 3828
(n,n') p:37-Rb-84m2
38-Sr-85
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 9.5000 MeV
JENDL5.0 Threshold 9.2049 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
38-Sr-85

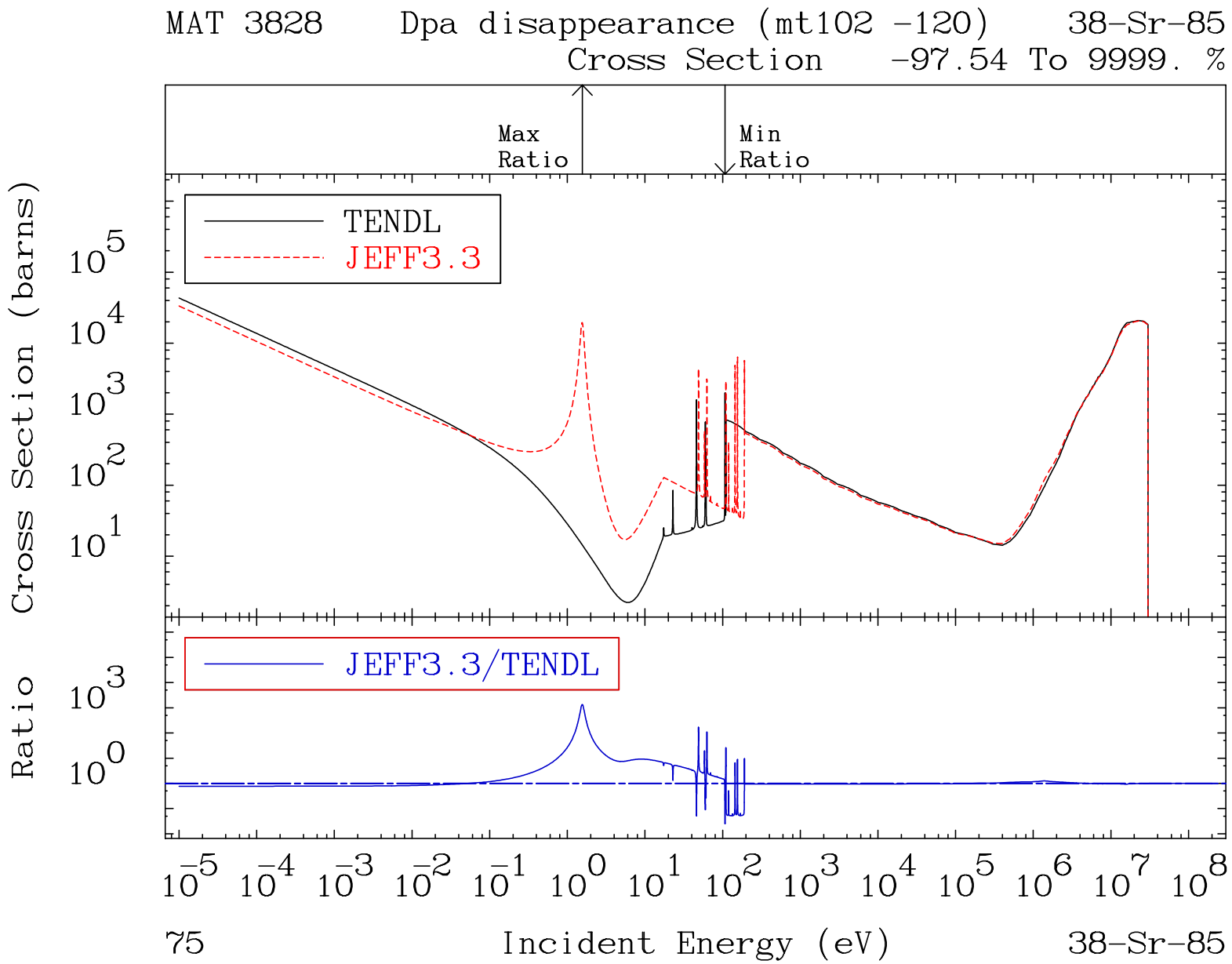

MAT 3828
(n,d):37-Rb-84g
38-Sr-85
Radionuclide Production Cross Section
100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.4848 MeV
JENDL5.0 Threshold 6.4848 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
38-Sr-85

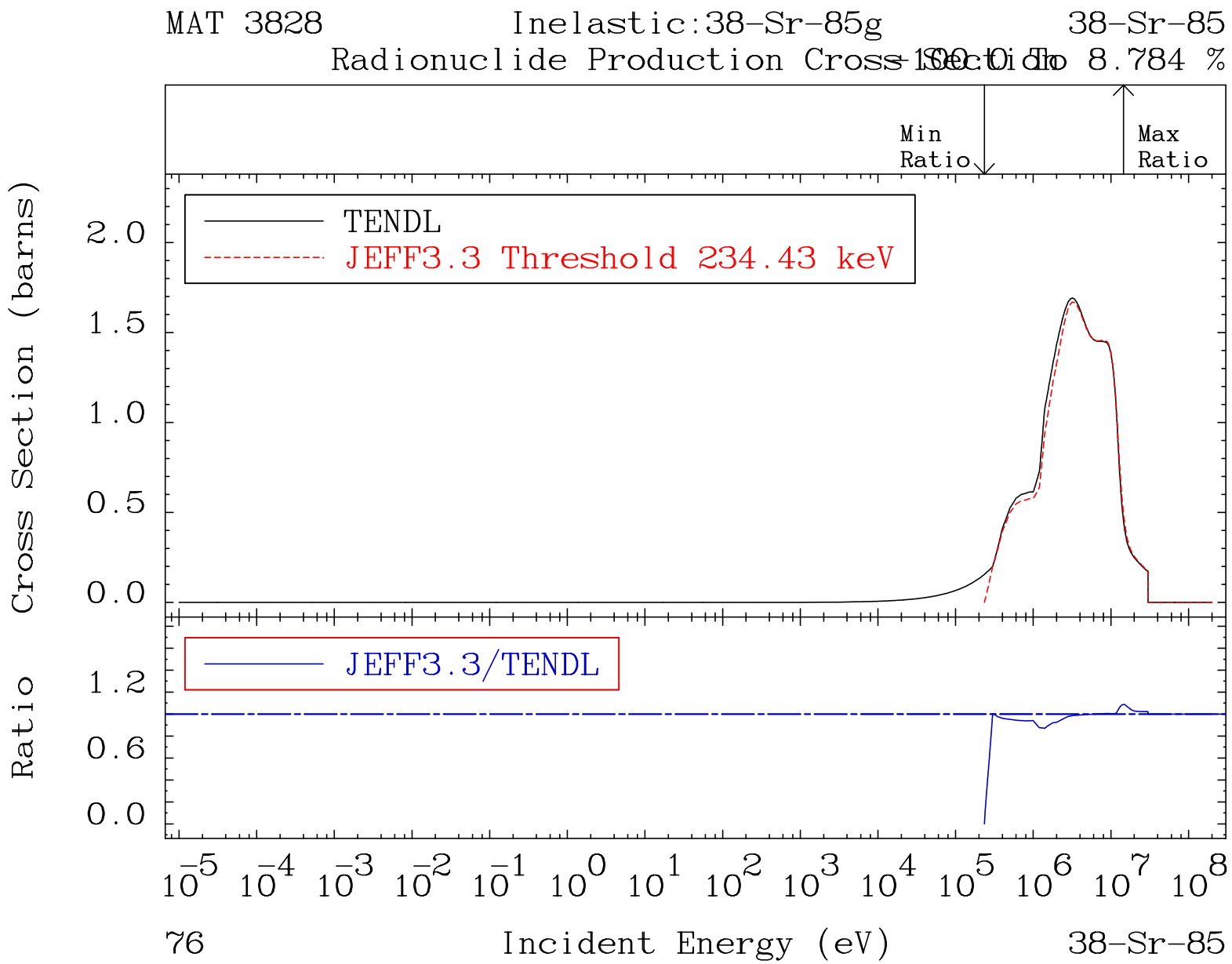

MAT 3828
(n,d):37-Rb-84m2
38-Sr-85
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.4000 MeV
JENDL5.0 Threshold 6.9539 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
38-Sr-85

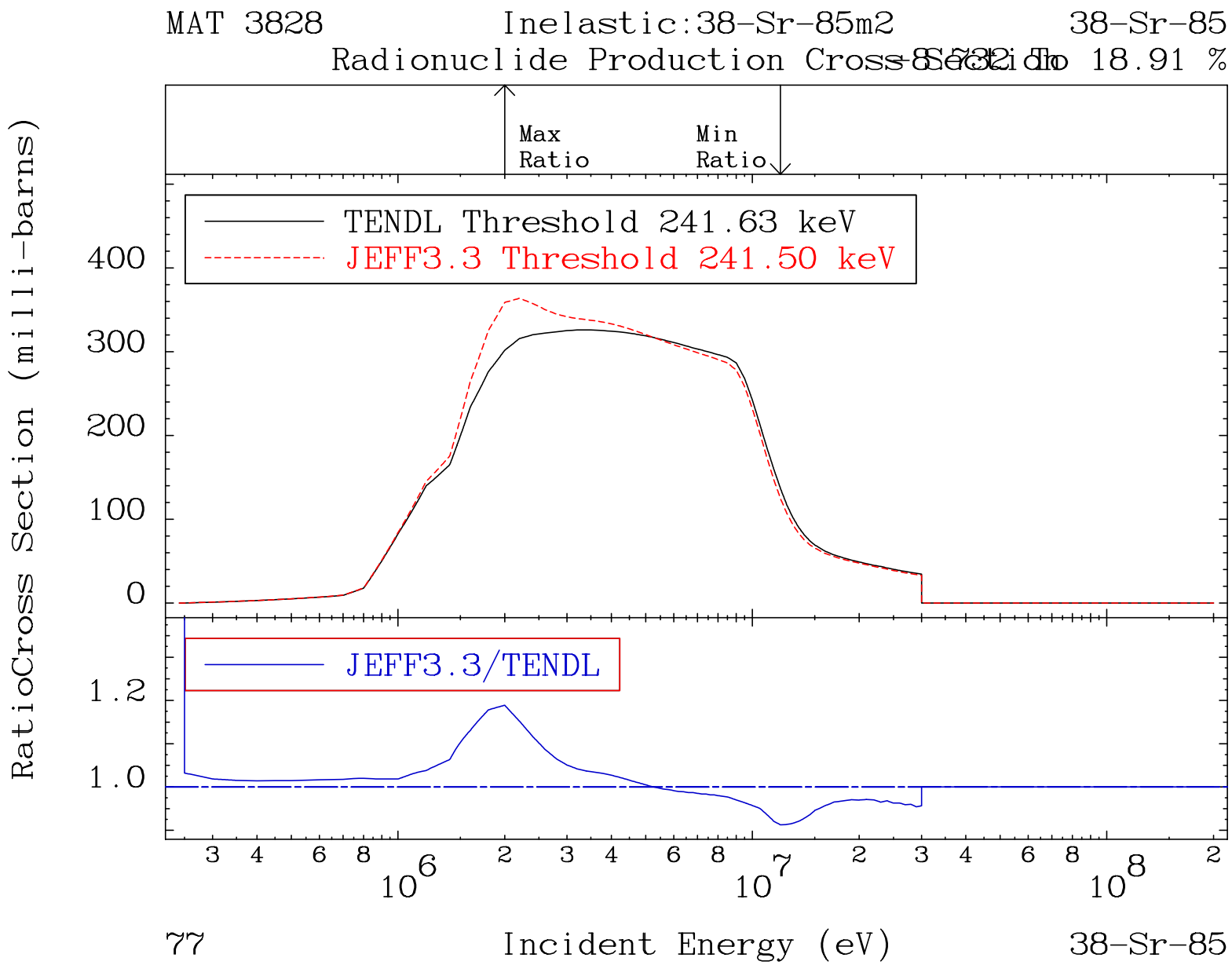

MAT 3828
(n,He-3):36-Kr-83g
38-Sr-85
Radionuclide Production Cross Section To
Min Ratio
Max Ratio
TENDL Threshold 8.0673 MeV
JENDL5.0 Threshold 8.0673 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
38-Sr-85

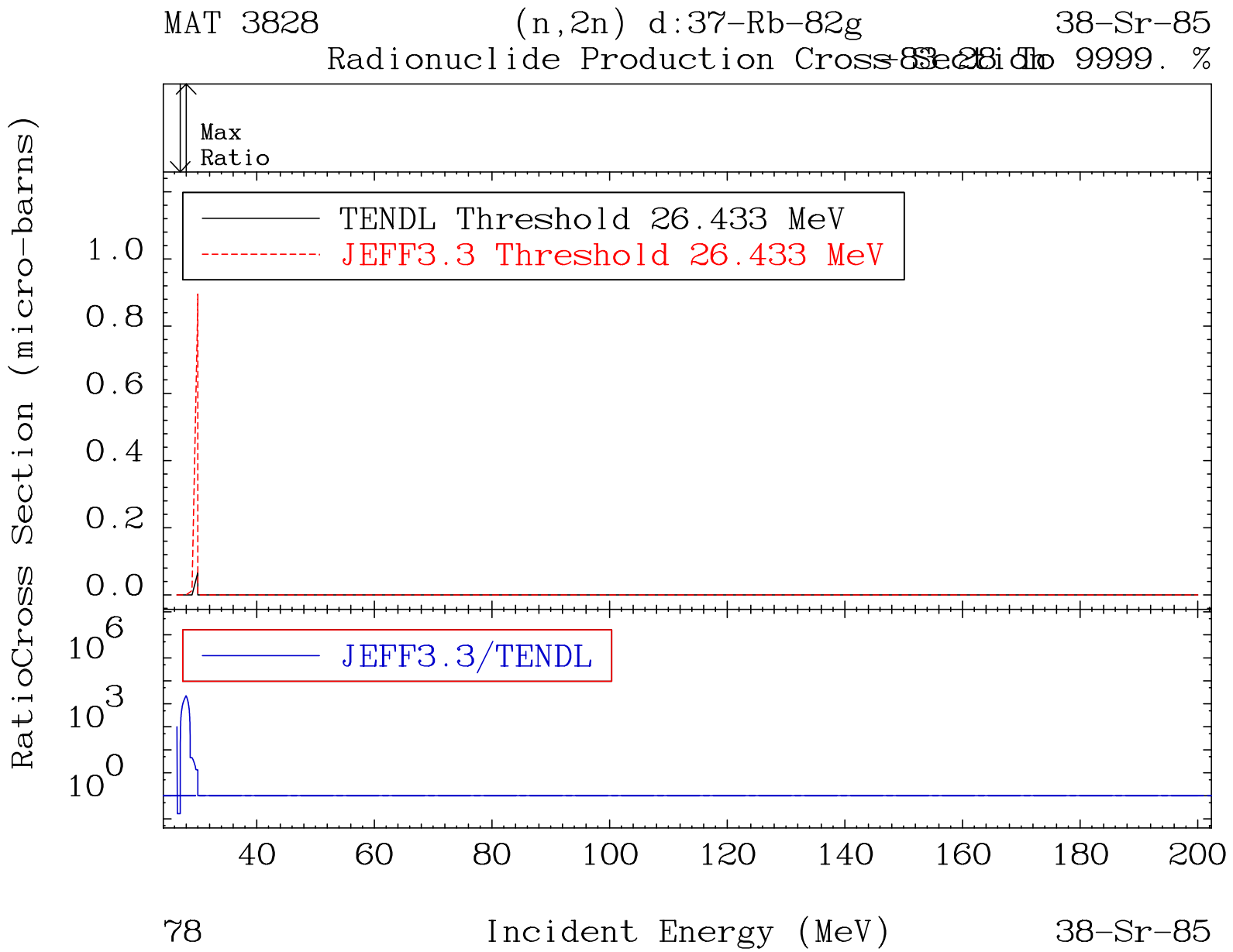

MAT 3828
(n,He-3):36-Kr-83m2
38-Sr-85
Radionuclide Production Cross Section To 9657. %
Max
Ratio
TENDL Threshold 8.1093 MeV
JENDL5.0 Threshold 8.1093 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
120
60
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
73
Incident Energy (eV)
38-Sr-85

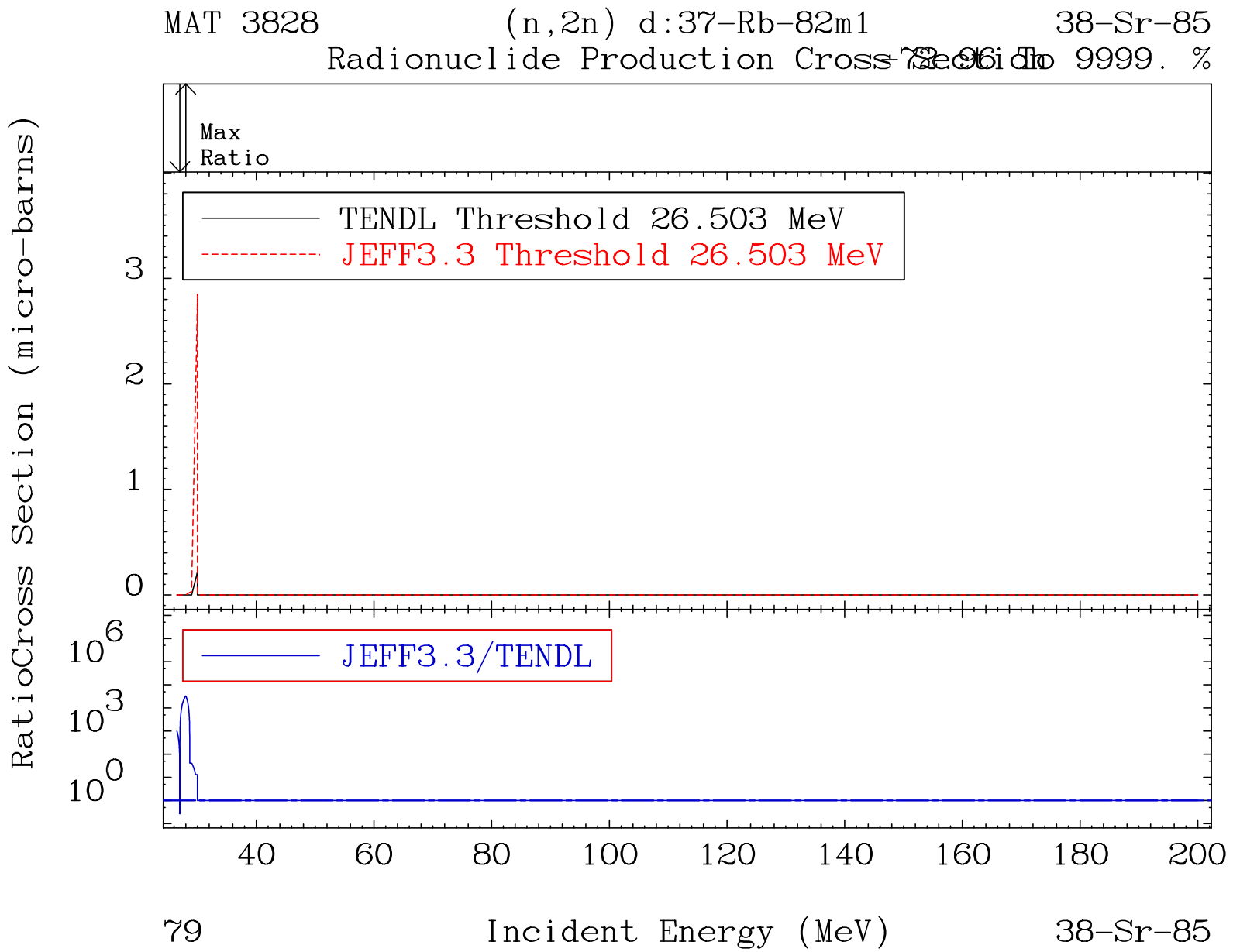

MAT 3828
Dpa inelastic (mt51-91)
38-Sr-85
Cross Section -8.631 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 234.54 keV
JEFF3.3 Threshold 234.43 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
38-Sr-85

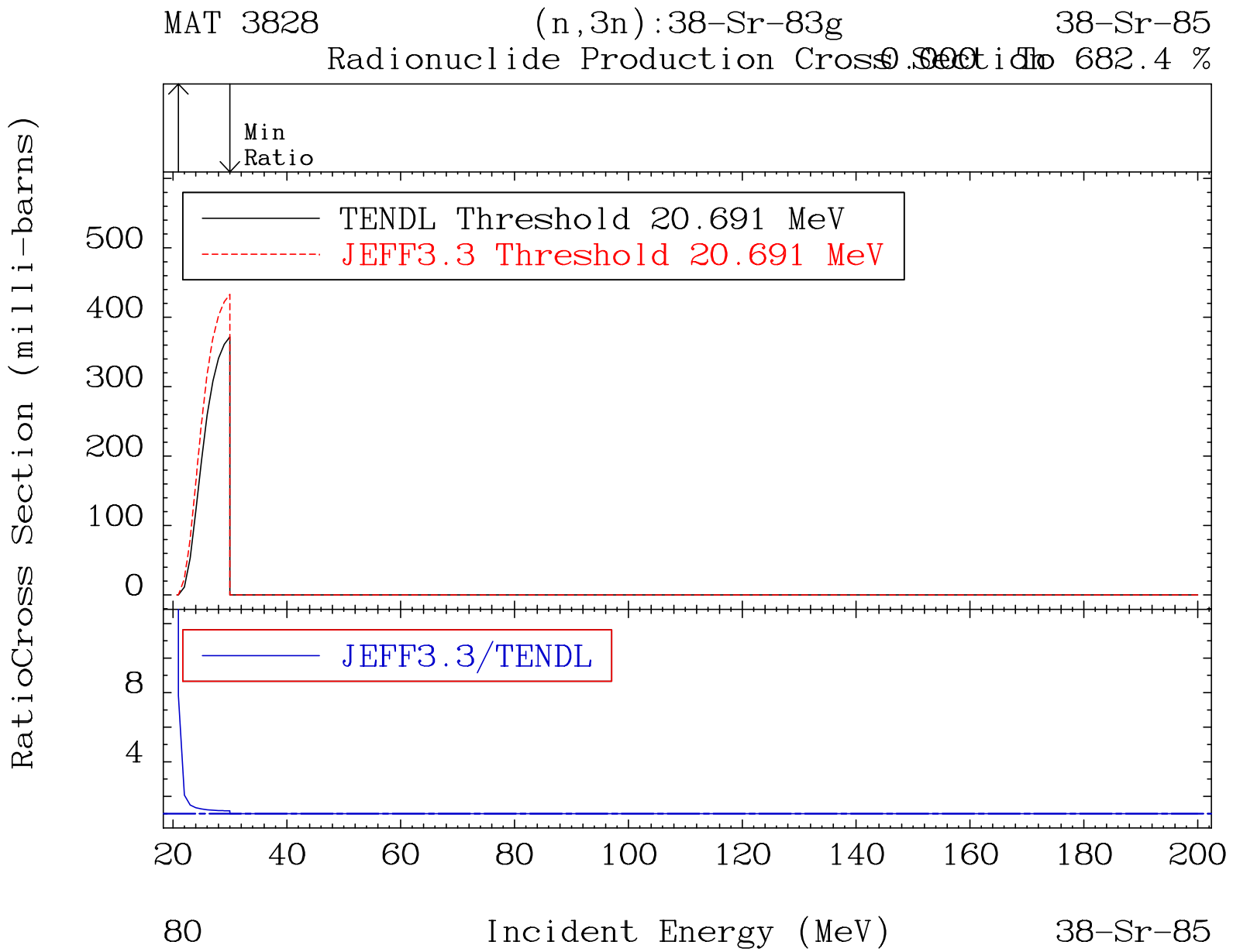

MAT 3828 Dpa disappearance (mt102 -120) 38-Sr-85
Cross Section -97.54 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
38-Sr-85

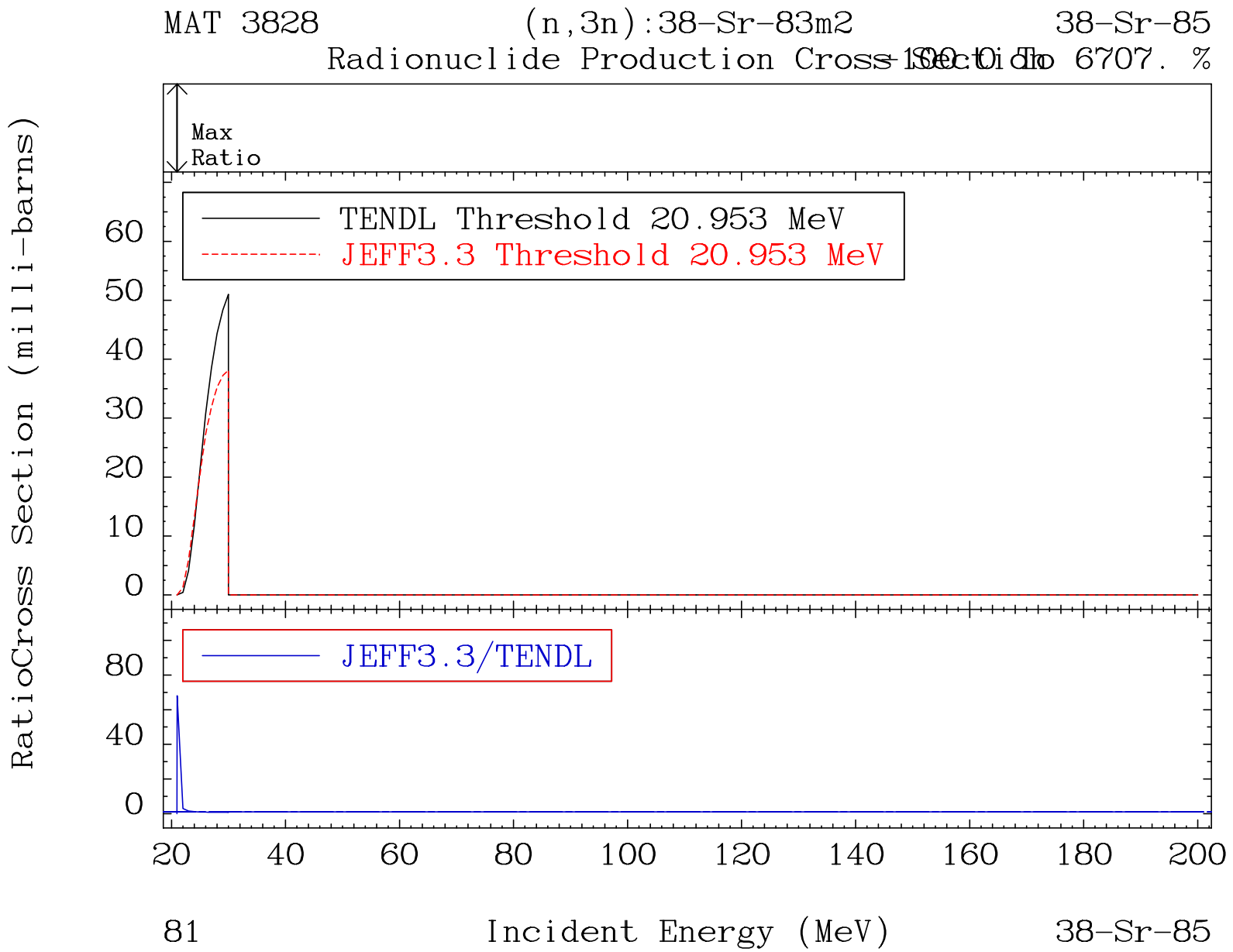

MAT 3828
Inelastic:38-Sr-85g
38-Sr-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 234.43 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
76
Incident Energy (eV)
38-Sr-85

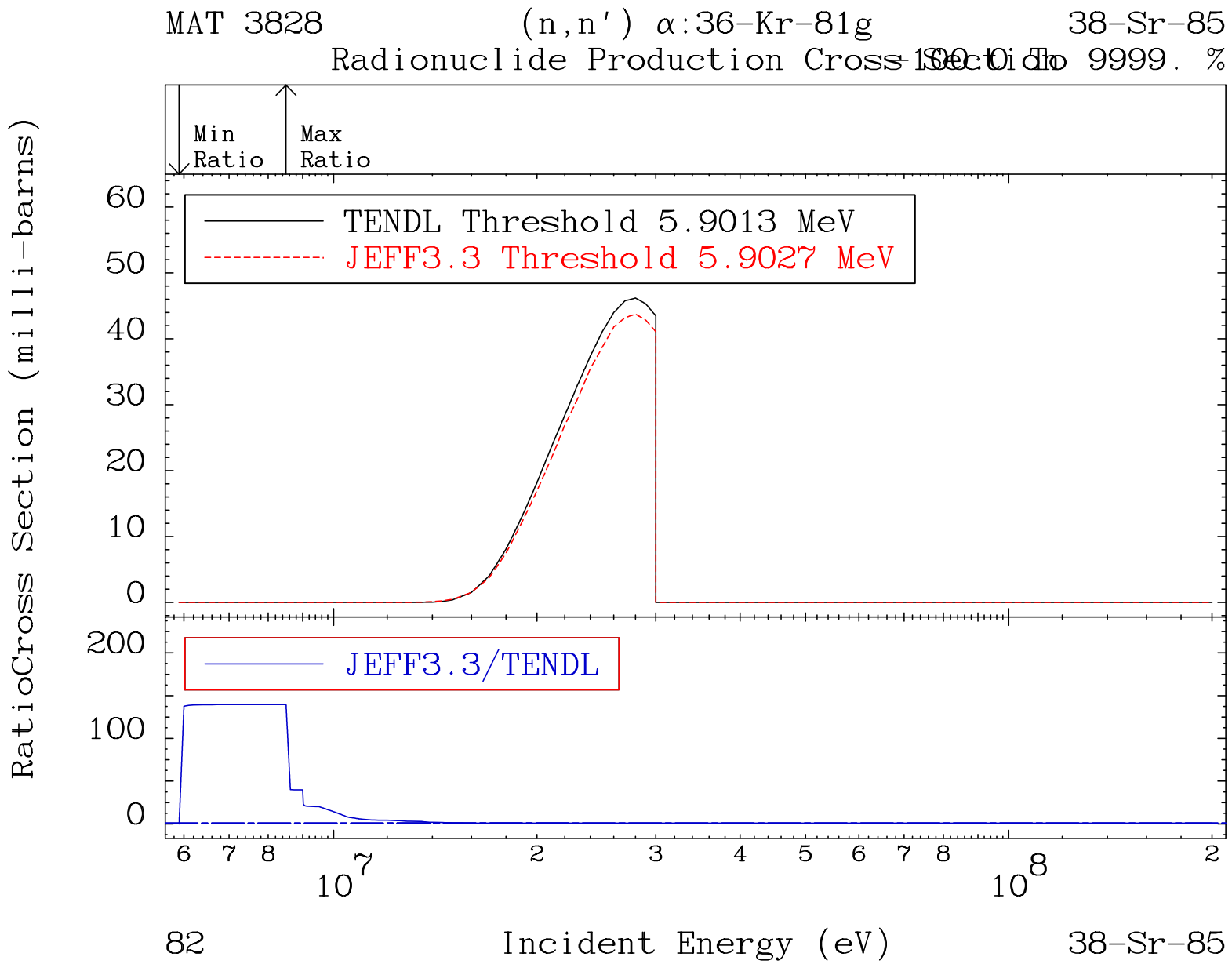

MAT 3828
Inelastic:38-Sr-85m2
38-Sr-85
Radionuclide Production Cross-Section
Max Ratio
Min Ratio
TENDL Threshold 241.63 keV
JEFF3.3 Threshold 241.50 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
77
38-Sr-85

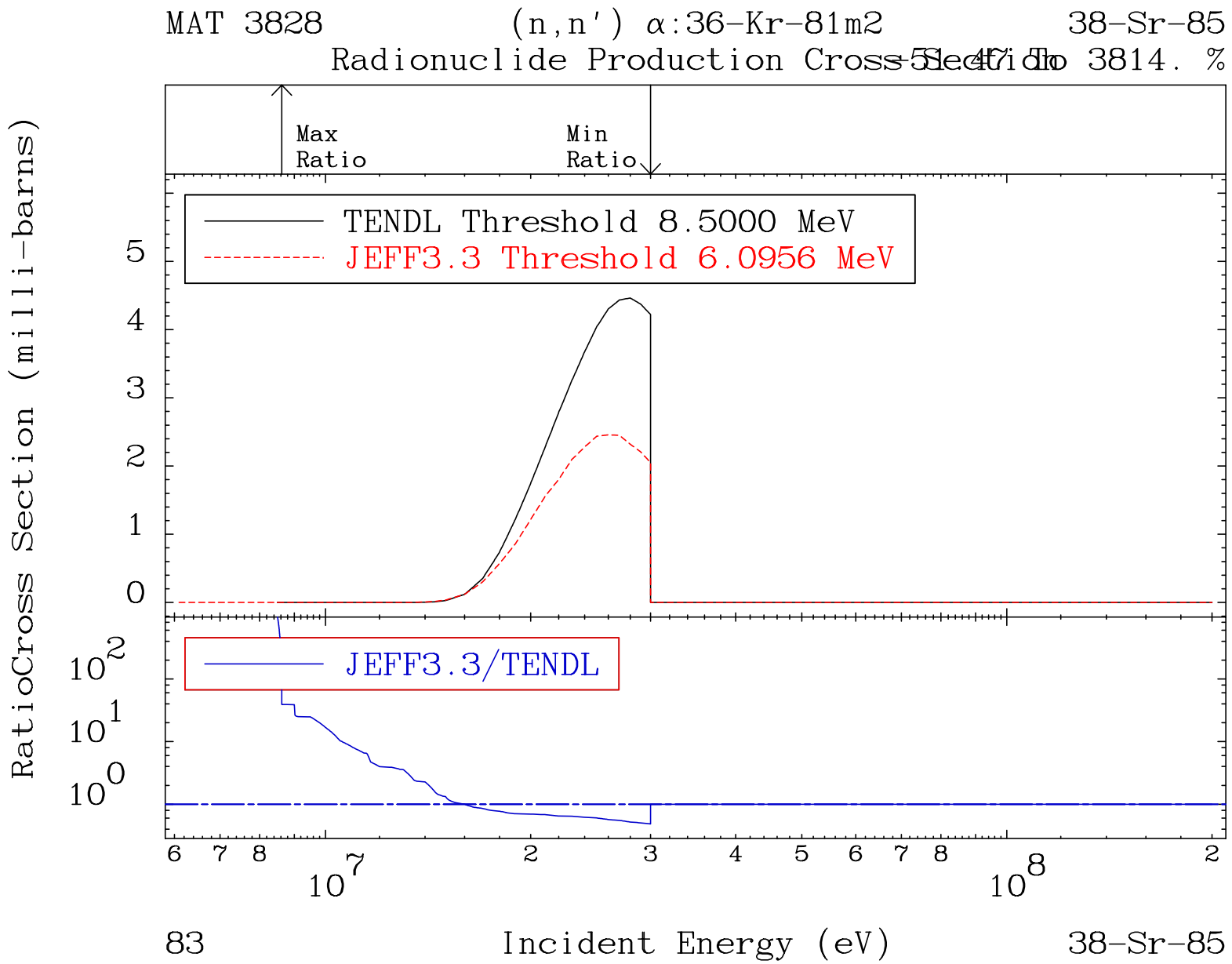

MAT 3828
(n,2n) d:37-Rb-82g
38-Sr-85
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 26.433 MeV
JEFF3.3 Threshold 26.433 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
10^6
10^3
10^0
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
38-Sr-85

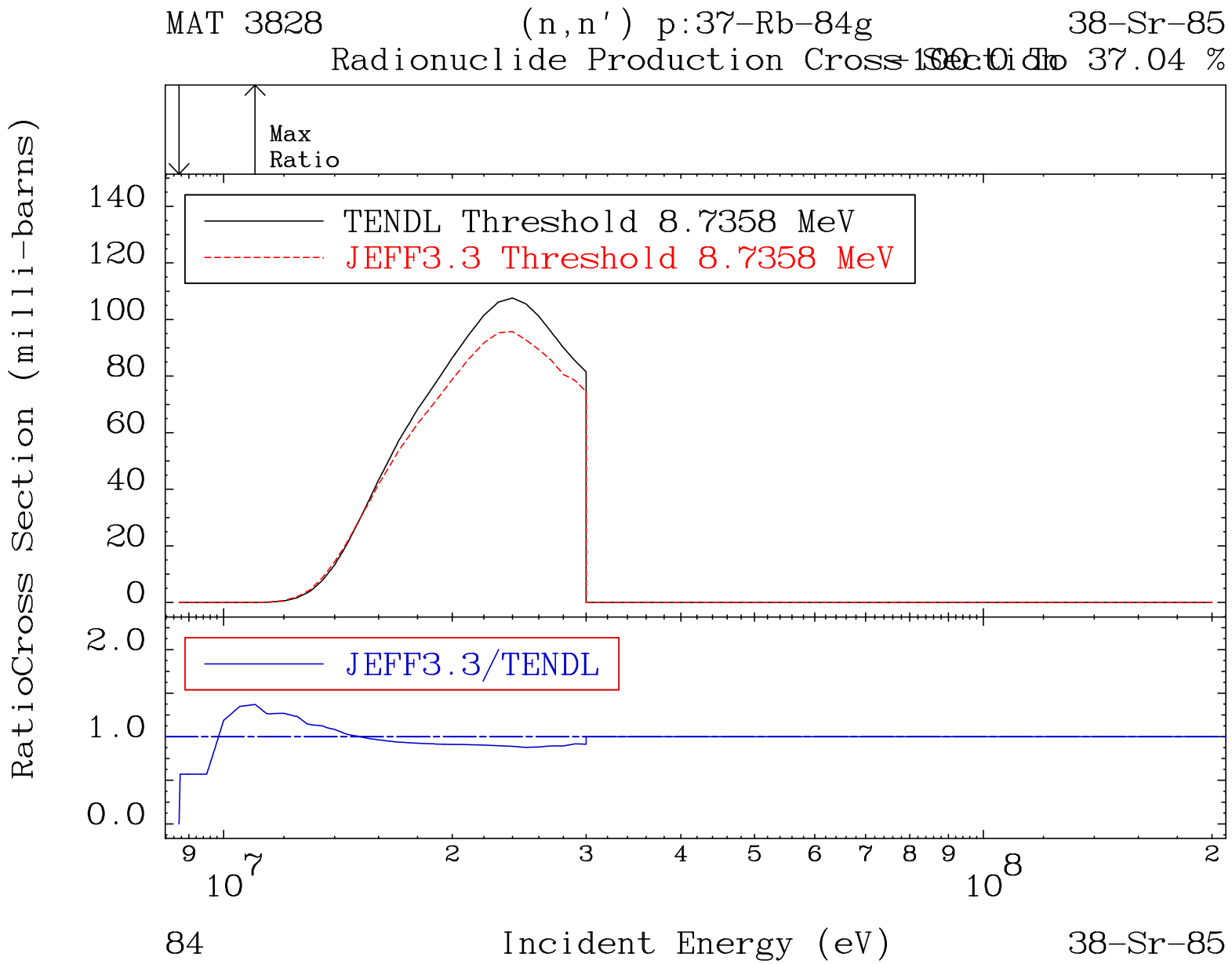

MAT 3828
(n,2n) d:37-Rb-82m1
38-Sr-85
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 26.503 MeV
JEFF3.3 Threshold 26.503 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
3
2
1
0
10^6
10^3
10^0
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
38-Sr-85

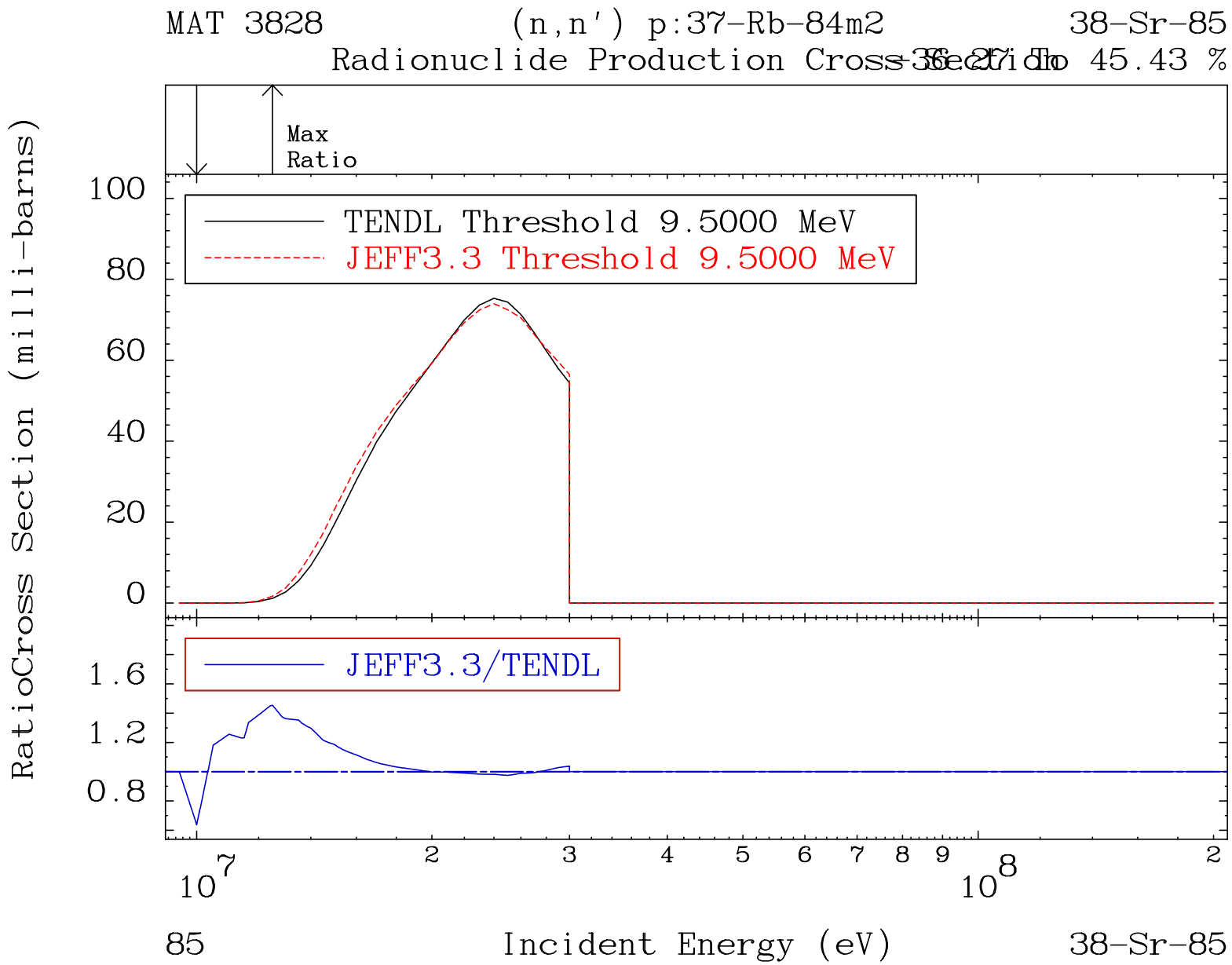

MAT 3828
(n,3n):38-Sr-83g
38-Sr-85
Radionuclide Production Cross Section
0.000 To 682.4 %
Min
Ratio
TENDL Threshold 20.691 MeV
JEFF3.3 Threshold 20.691 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
8
4
20
40
60
80
100
120
140
160
180
200
80
Incident Energy (MeV)
38-Sr-85

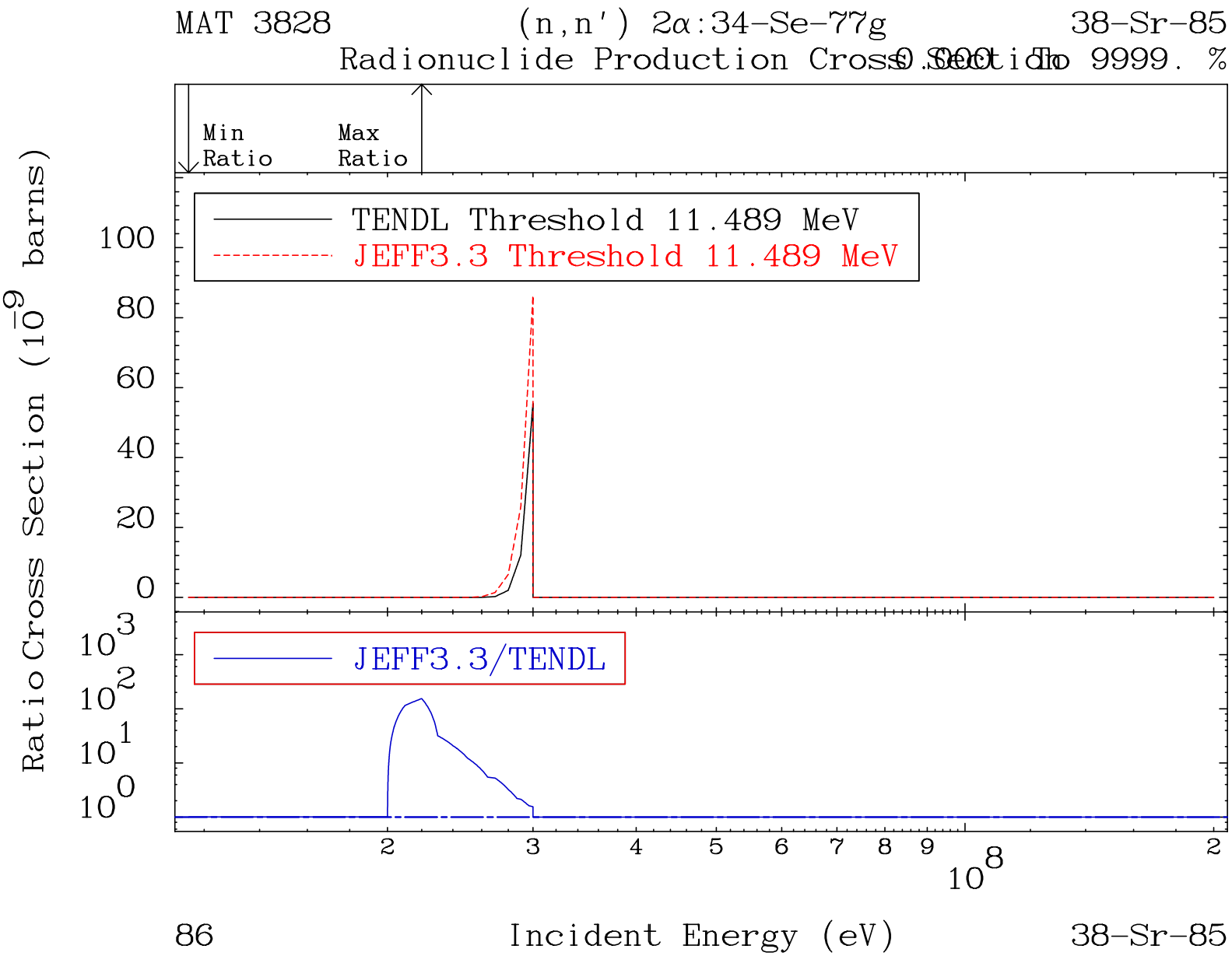

MAT 3828
(n,3n):38-Sr-83m2
38-Sr-85
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 20.953 MeV
JEFF3.3 Threshold 20.953 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (MeV)
81
38-Sr-85

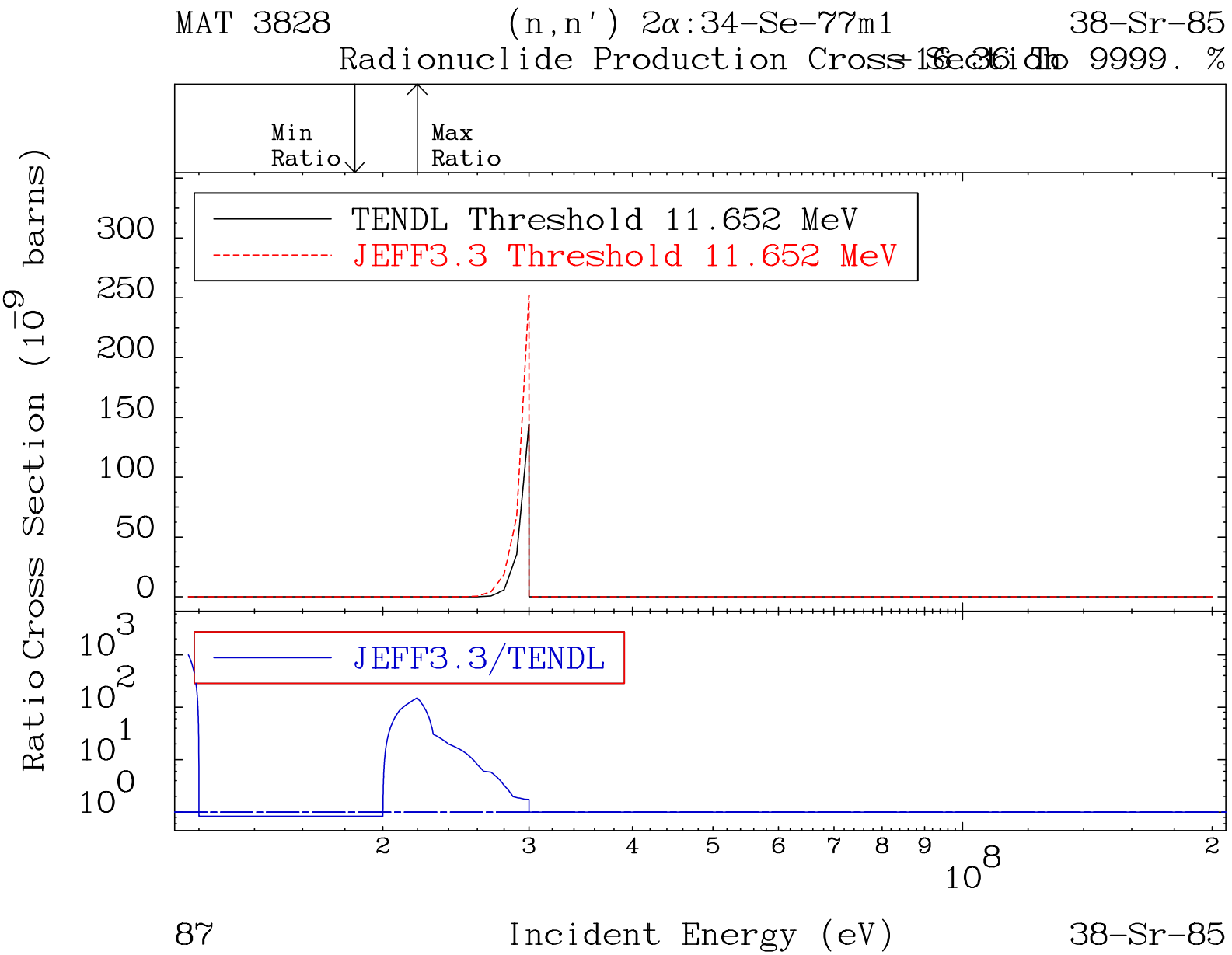

MAT 3828
(n,n') α:36-Kr-81g
38-Sr-85
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.9013 MeV
JEFF3.3 Threshold 5.9027 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
38-Sr-85

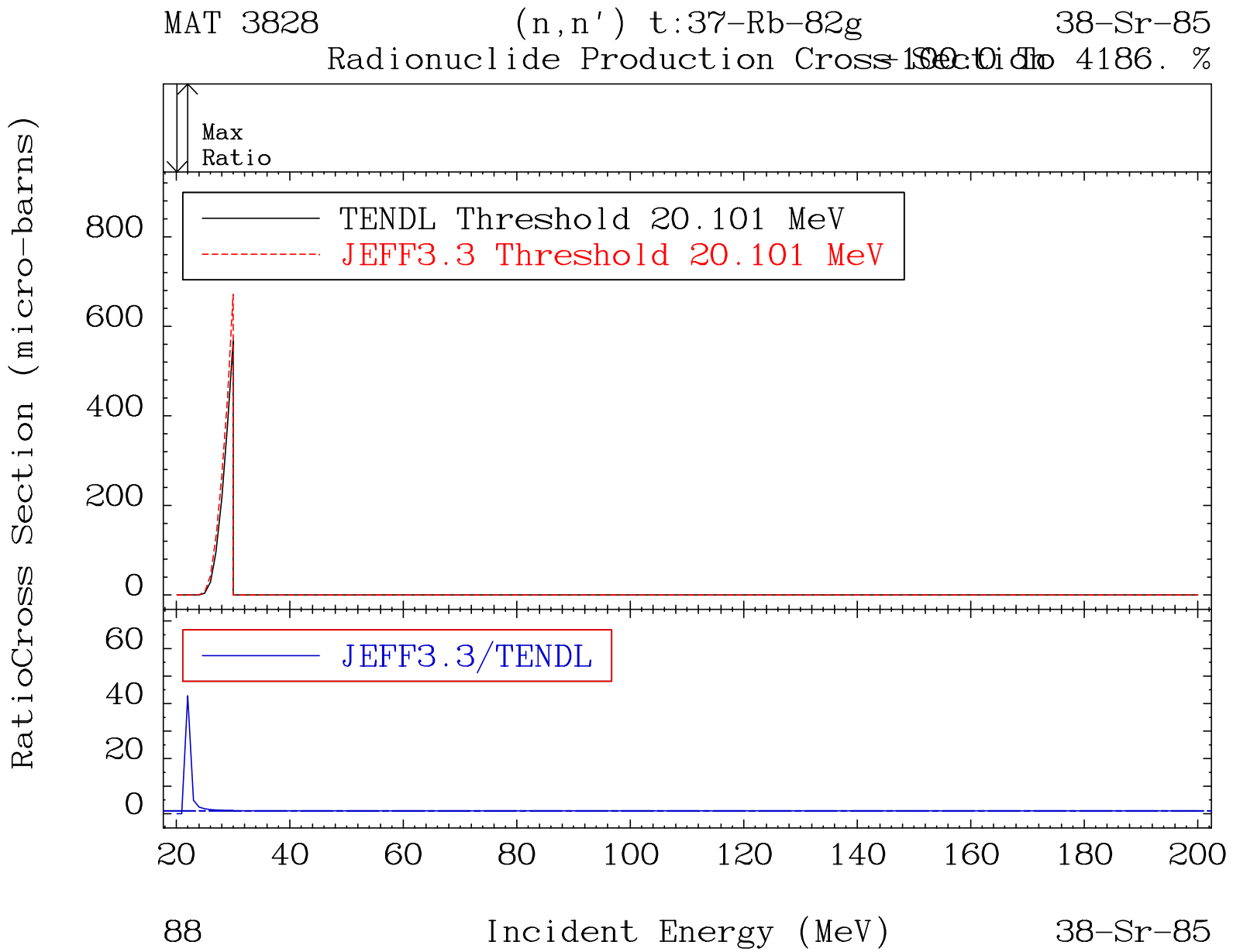

MAT 3828
(n,n') α:36-Kr-81m2
38-Sr-85
Radionuclide Production Cross-Section To 3814. %
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JEFF3.3 Threshold 6.0956 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
83
38-Sr-85

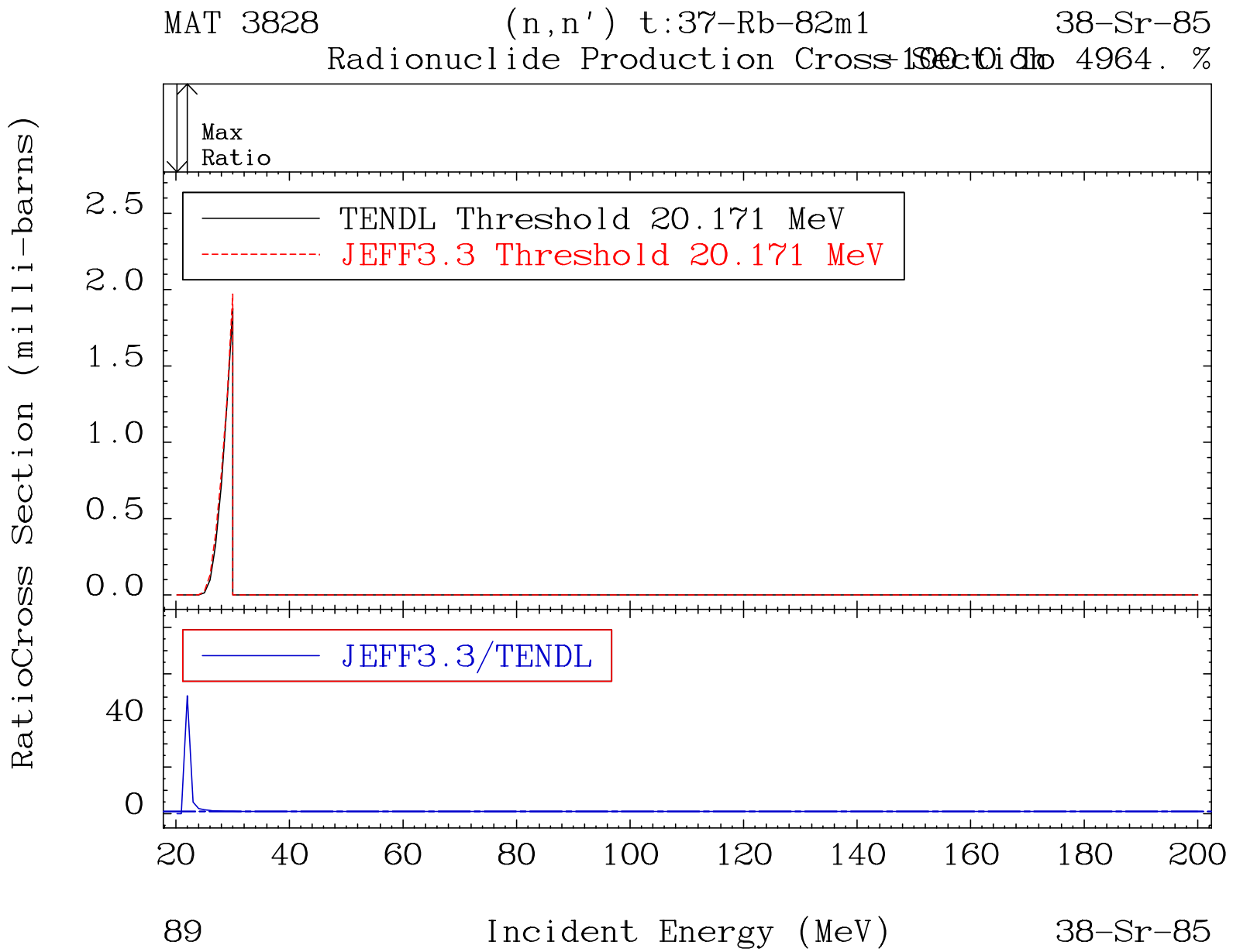

MAT 3828
(n,n') p:37-Rb-84g
38-Sr-85
Radionuclide Production Cross Section To 37.04 %
Max
Ratio
TENDL Threshold 8.7358 MeV
JEFF3.3 Threshold 8.7358 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
38-Sr-85

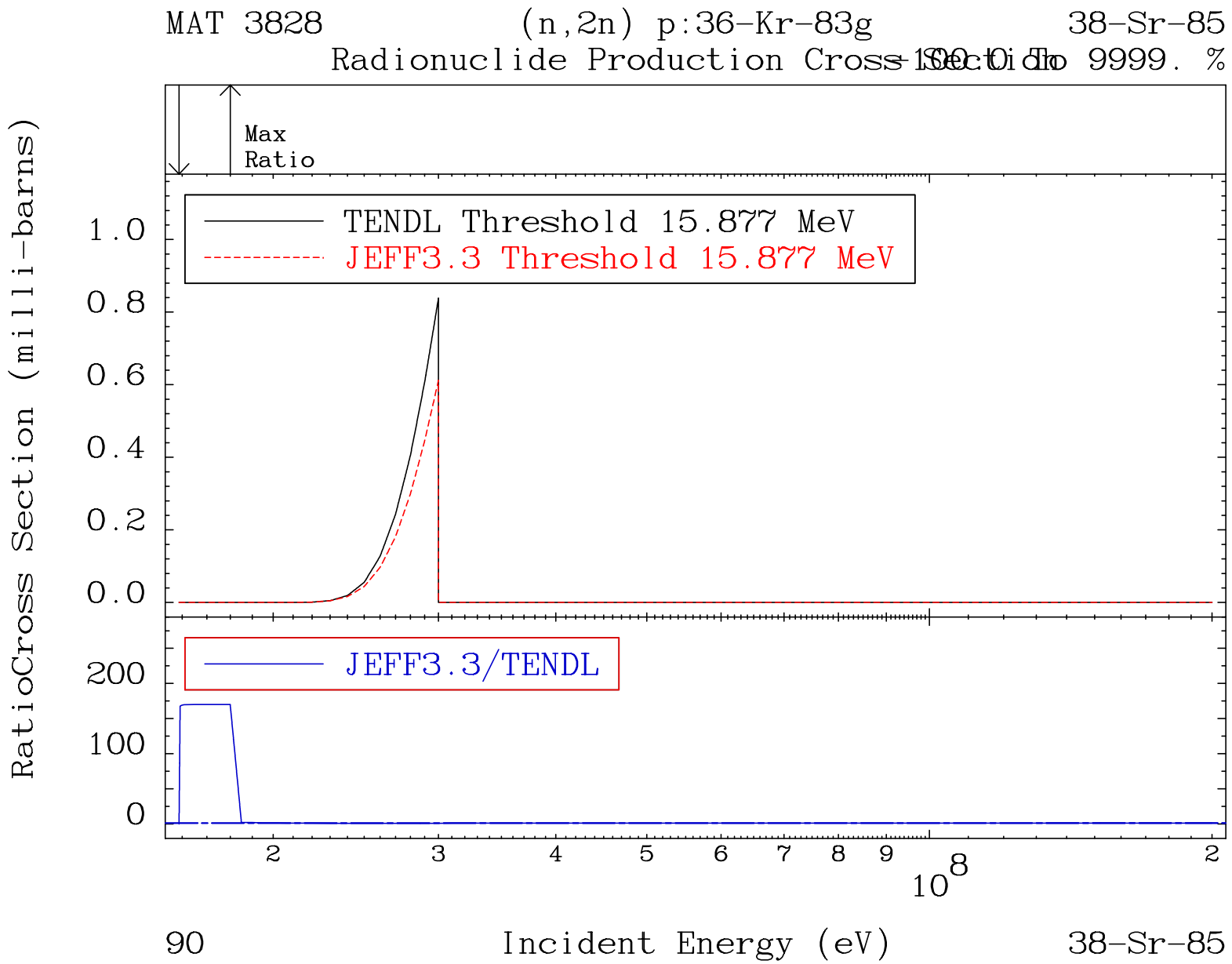

MAT 3828
(n,n') p:37-Rb-84m2
38-Sr-85
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 9.5000 MeV
JEFF3.3 Threshold 9.5000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
85
38-Sr-85

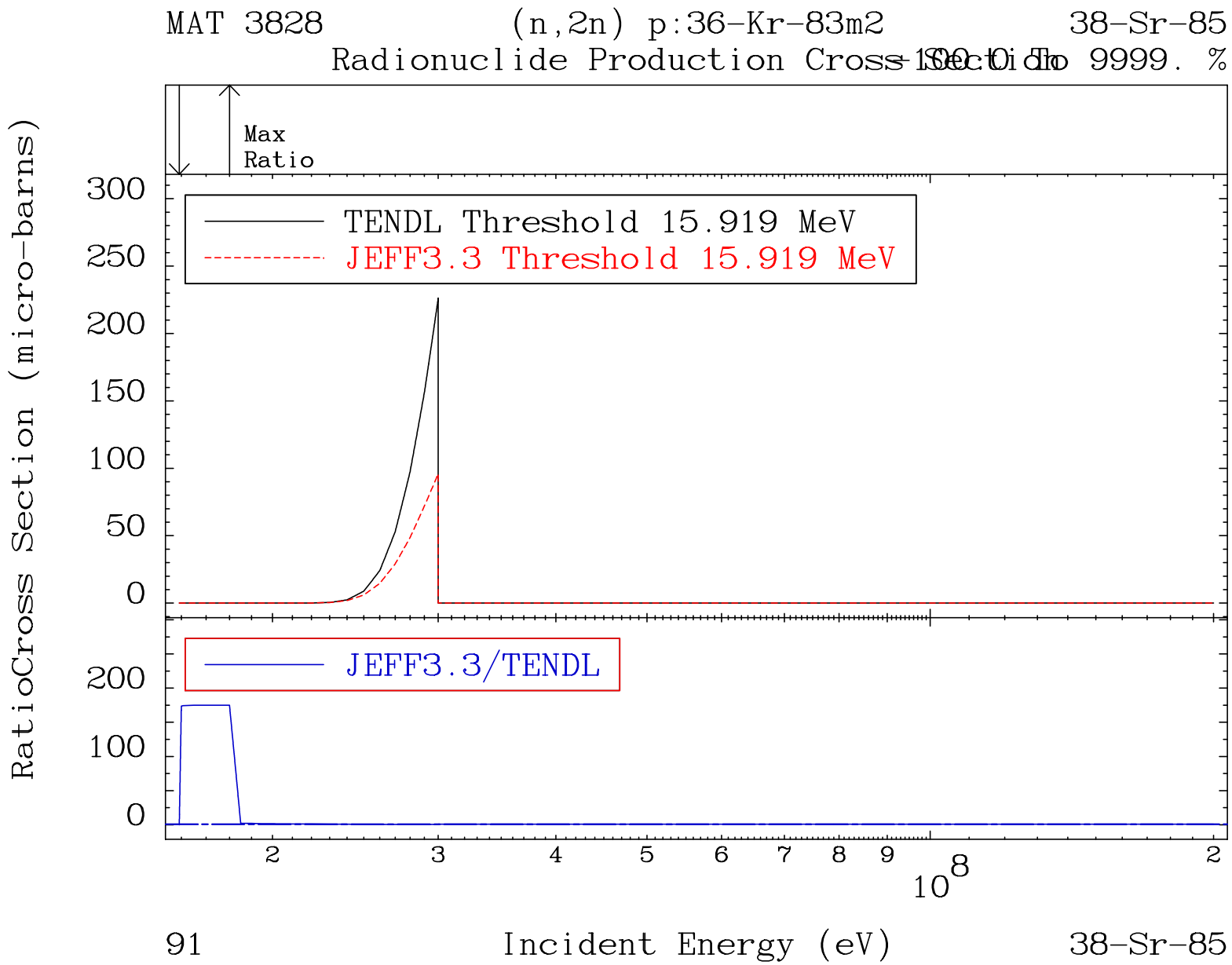

MAT 3828
(n,n') 2α:34-Se-77g
38-Sr-85
Radionuclide Production Cross Section
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.489 MeV
JEFF3.3 Threshold 11.489 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
100
80
60
40
20
0
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
38-Sr-85

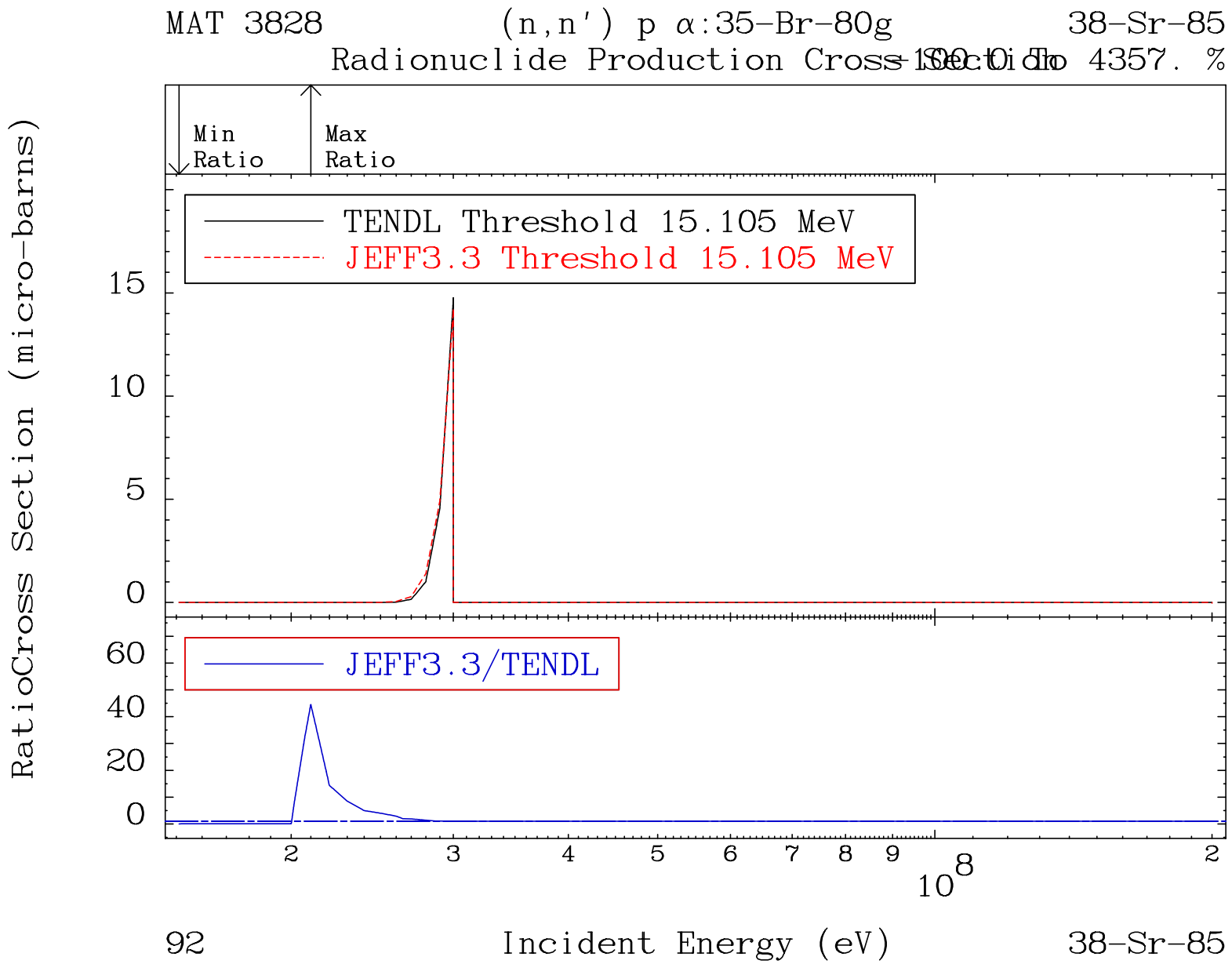

MAT 3828
(n,n') 2α:34-Se-77m1
38-Sr-85
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 11.652 MeV
JEFF3.3 Threshold 11.652 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
38-Sr-85

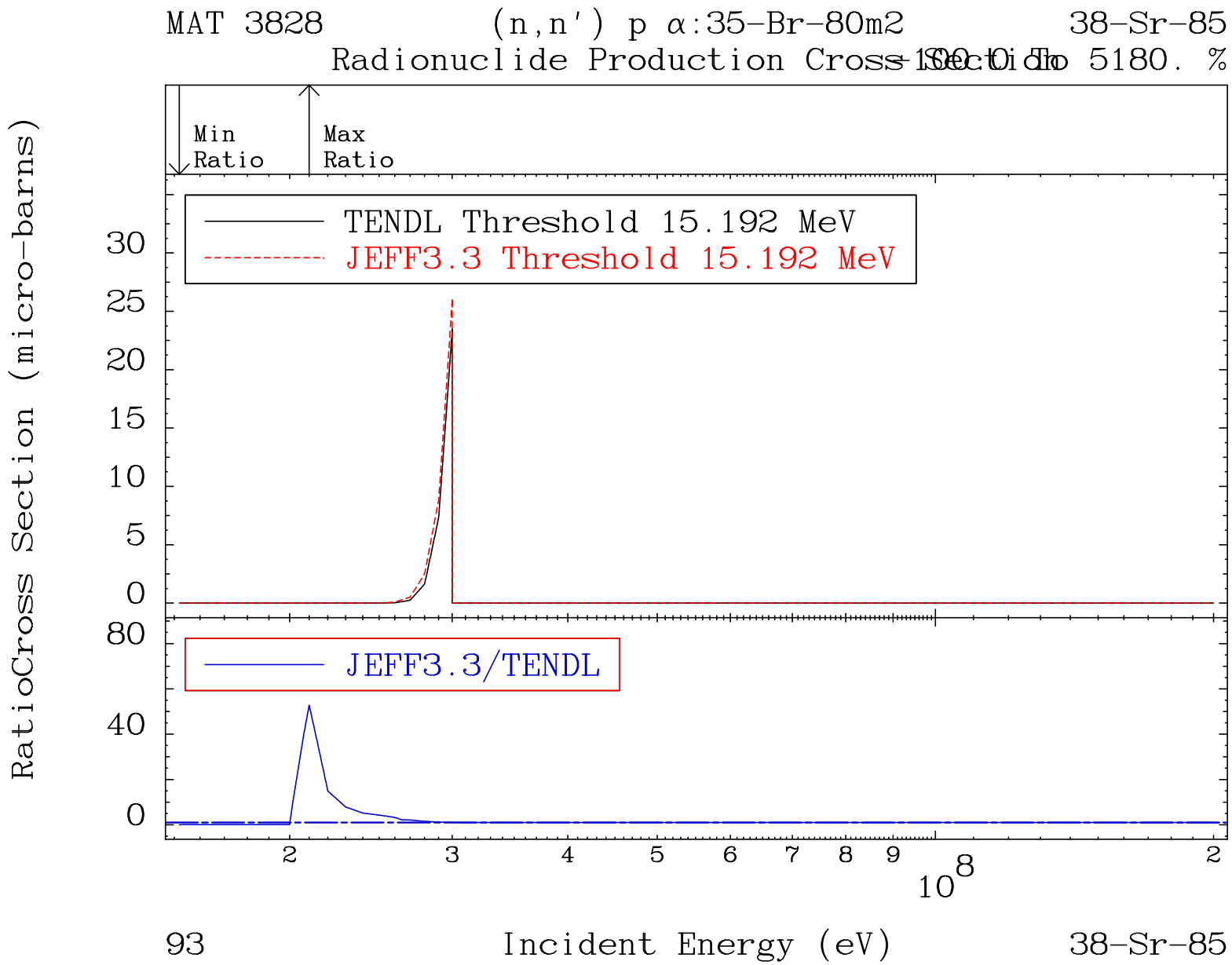

MAT 3828
(n,n') t:37-Rb-82g
38-Sr-85
Radionuclide Production Cross Section To 4186. %
Max
Ratio
TENDL Threshold 20.101 MeV
JEFF3.3 Threshold 20.101 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
60
40
20
0
20
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
38-Sr-85

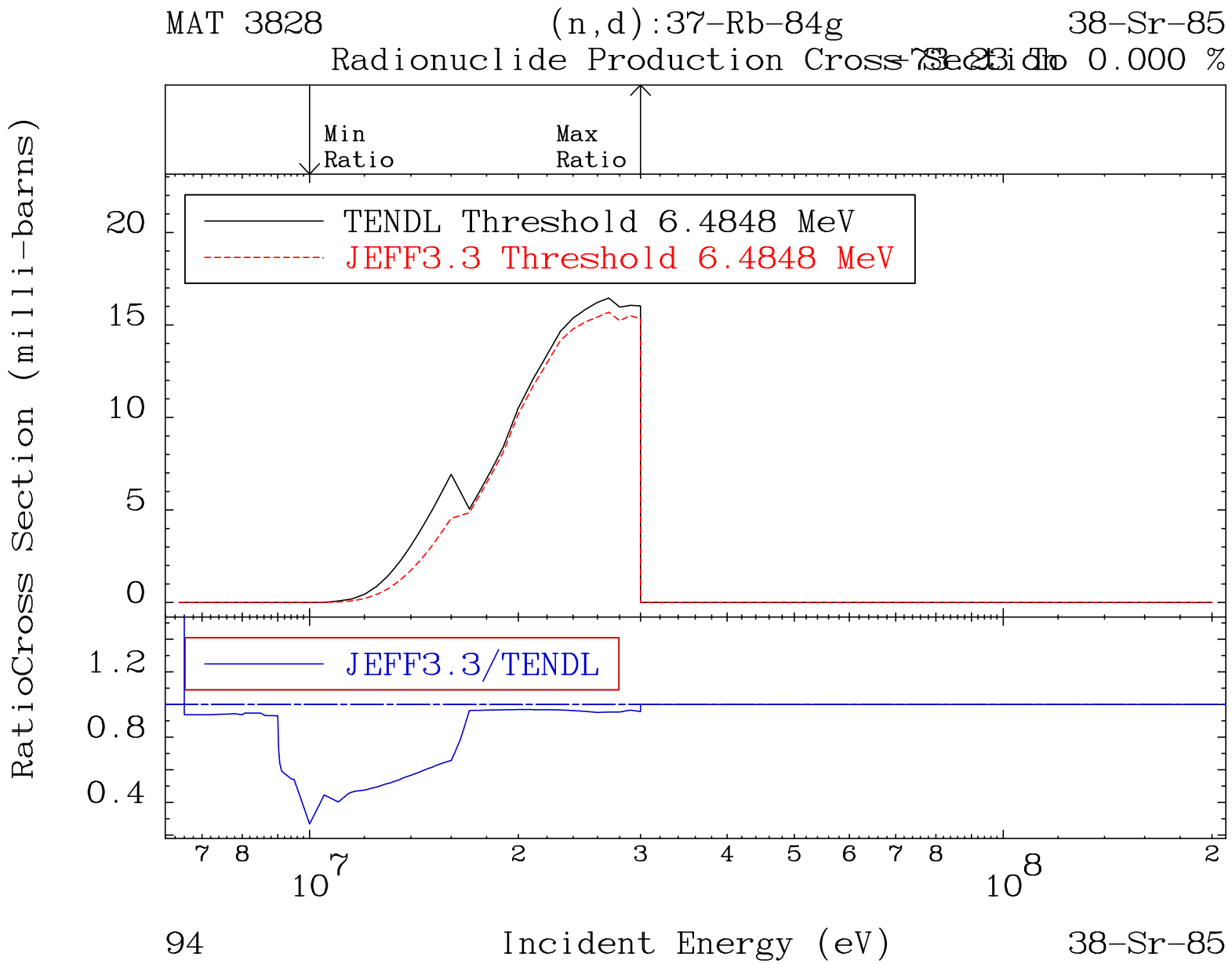

MAT 3828 (n,n') t:37-Rb-82m1 38-Sr-85
Radionuclide Production Cross Section To 4964. %
Max
Ratio
TENDL Threshold 20.171 MeV
JEFF3.3 Threshold 20.171 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
40
0
20
40
60
80
100
120
140
160
180
200
89
Incident Energy (MeV)
38-Sr-85

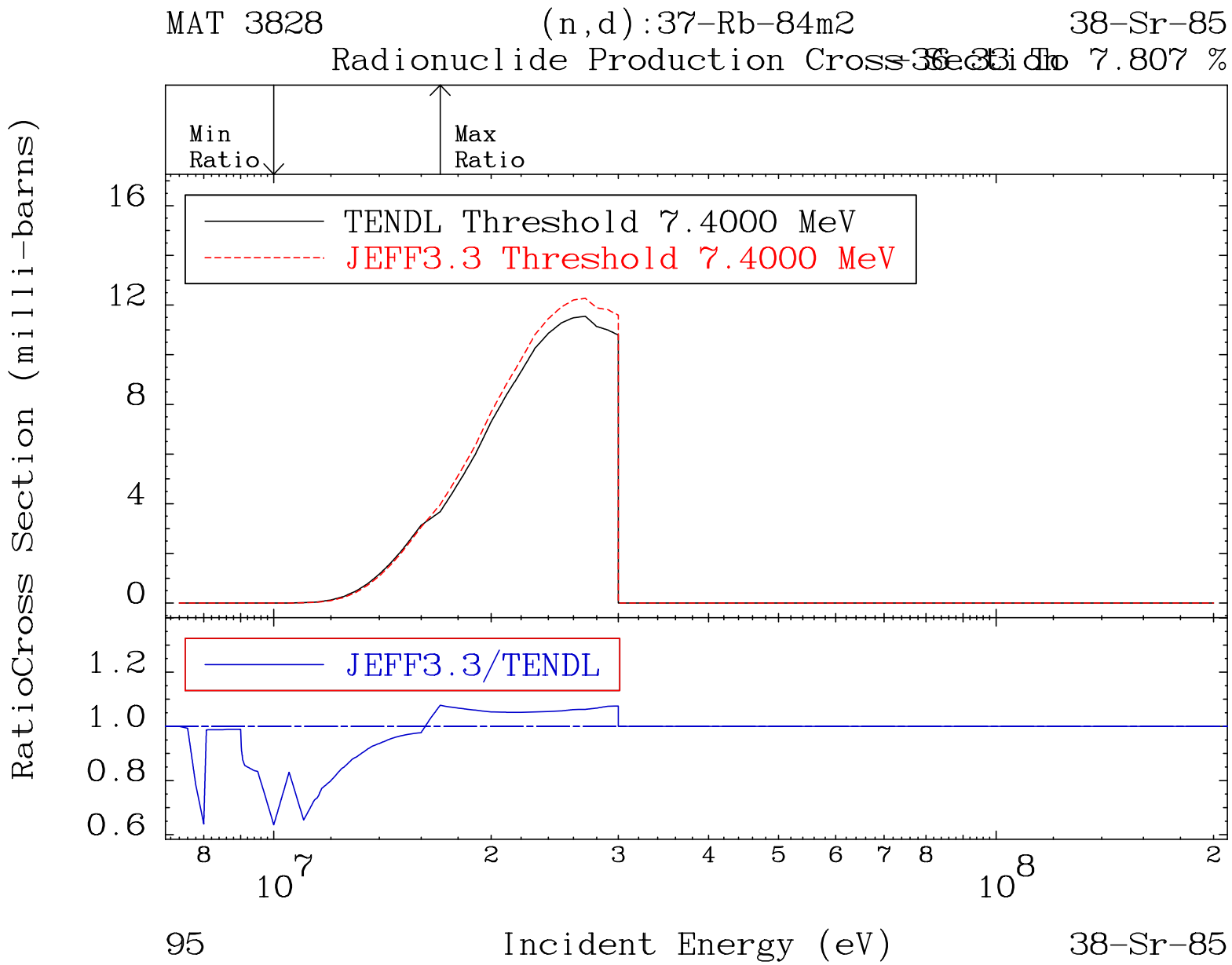

MAT 3828
(n,2n) p:36-Kr-83g
38-Sr-85
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 15.877 MeV
JEFF3.3 Threshold 15.877 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
200
100
0
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
38-Sr-85

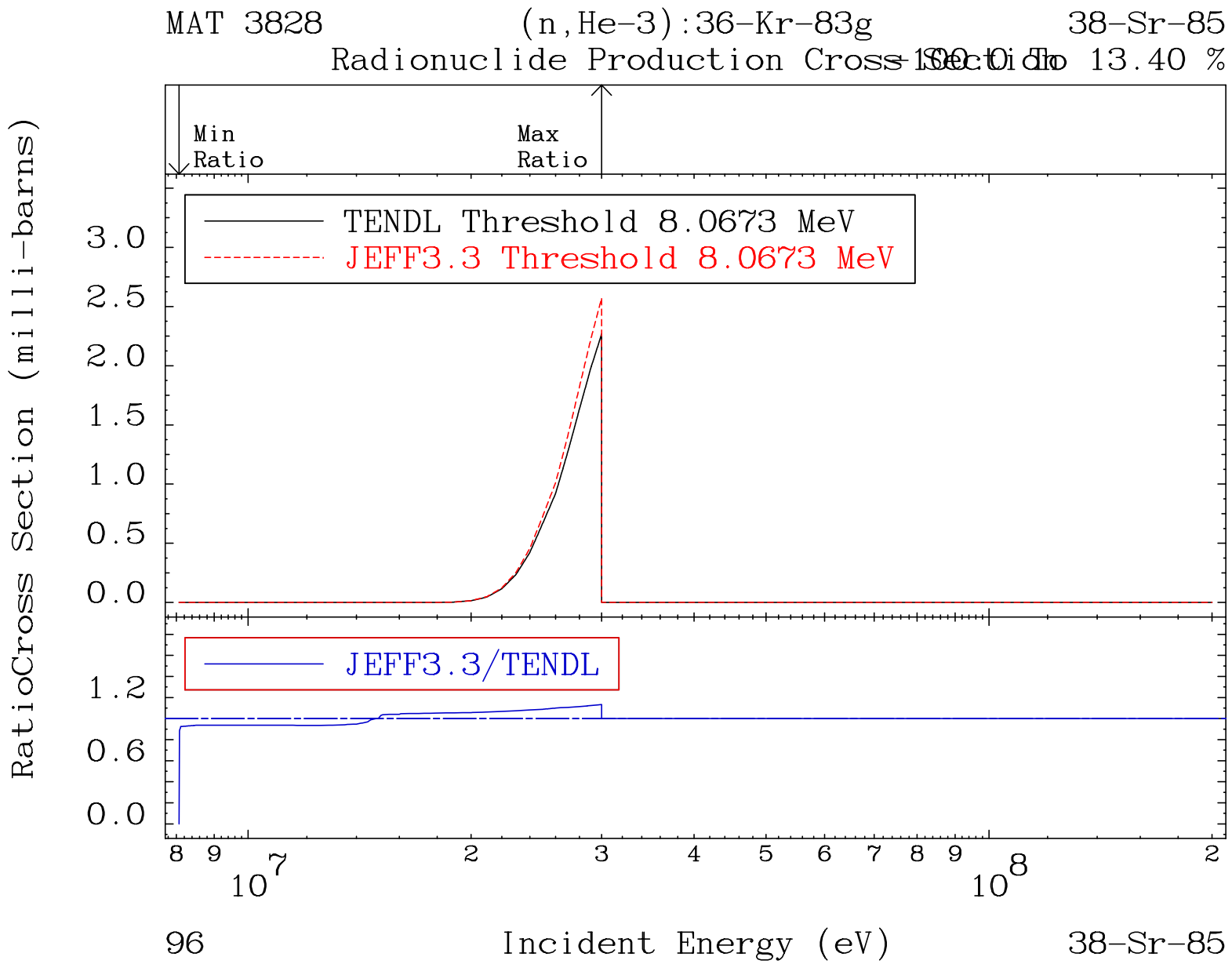

MAT 3828
(n,2n) p:36-Kr-83m2
38-Sr-85
Radionuclide Production Cross Section To 9999. %
Max
Ratio
300
250
200
150
100
50
0
TENDL Threshold 15.919 MeV
JEFF3.3 Threshold 15.919 MeV
200
100
0
JEFF3.3/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (micro-barns)
91
Incident Energy (eV)
38-Sr-85

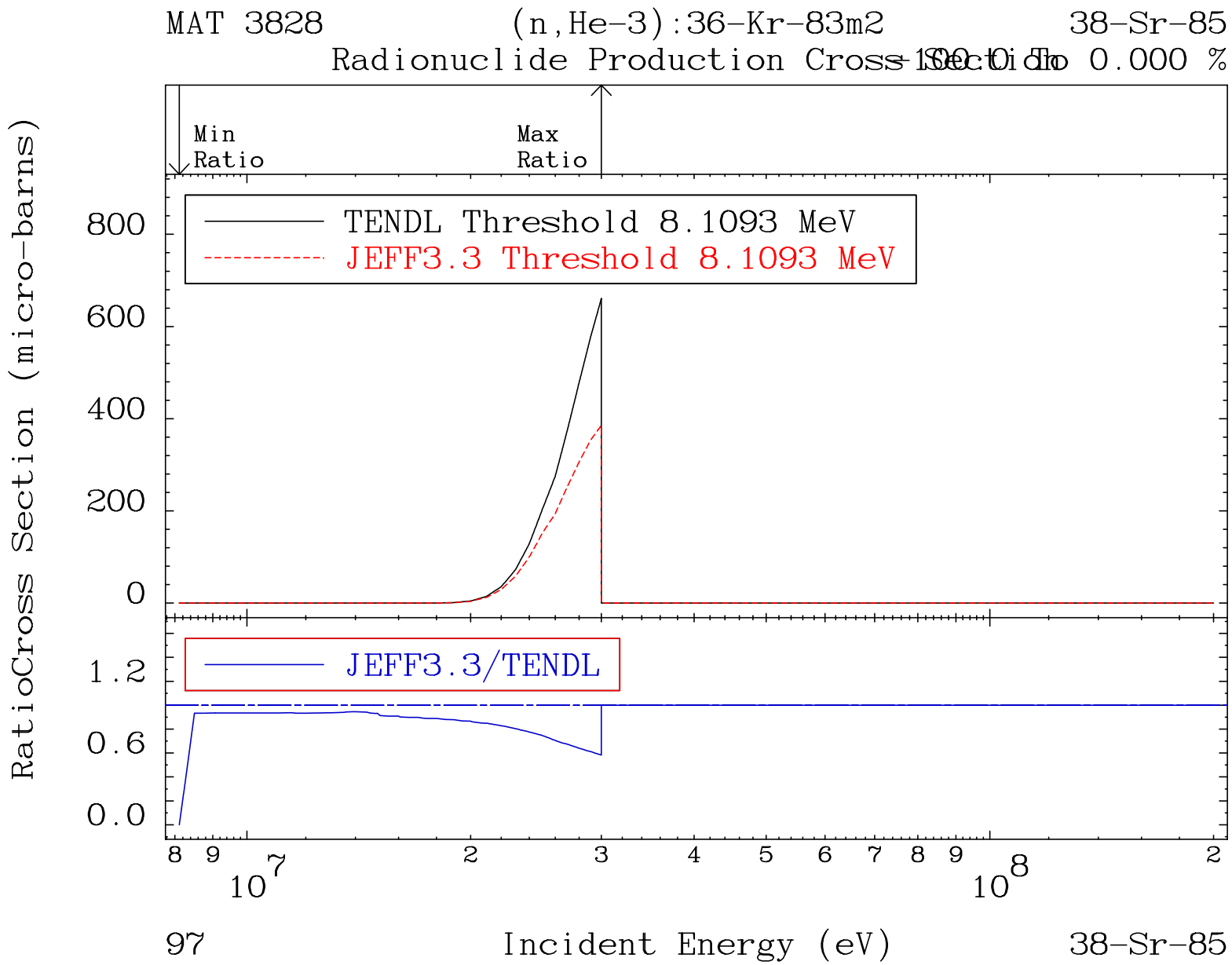

MAT 3828
(n,n') p α:35-Br-80g
38-Sr-85
Radionuclide Production Cross Section To 4357. %
Min Ratio
Max Ratio
TENDL Threshold 15.105 MeV
JEFF3.3 Threshold 15.105 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
15
10
5
0
60
40
20
0
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
38-Sr-85

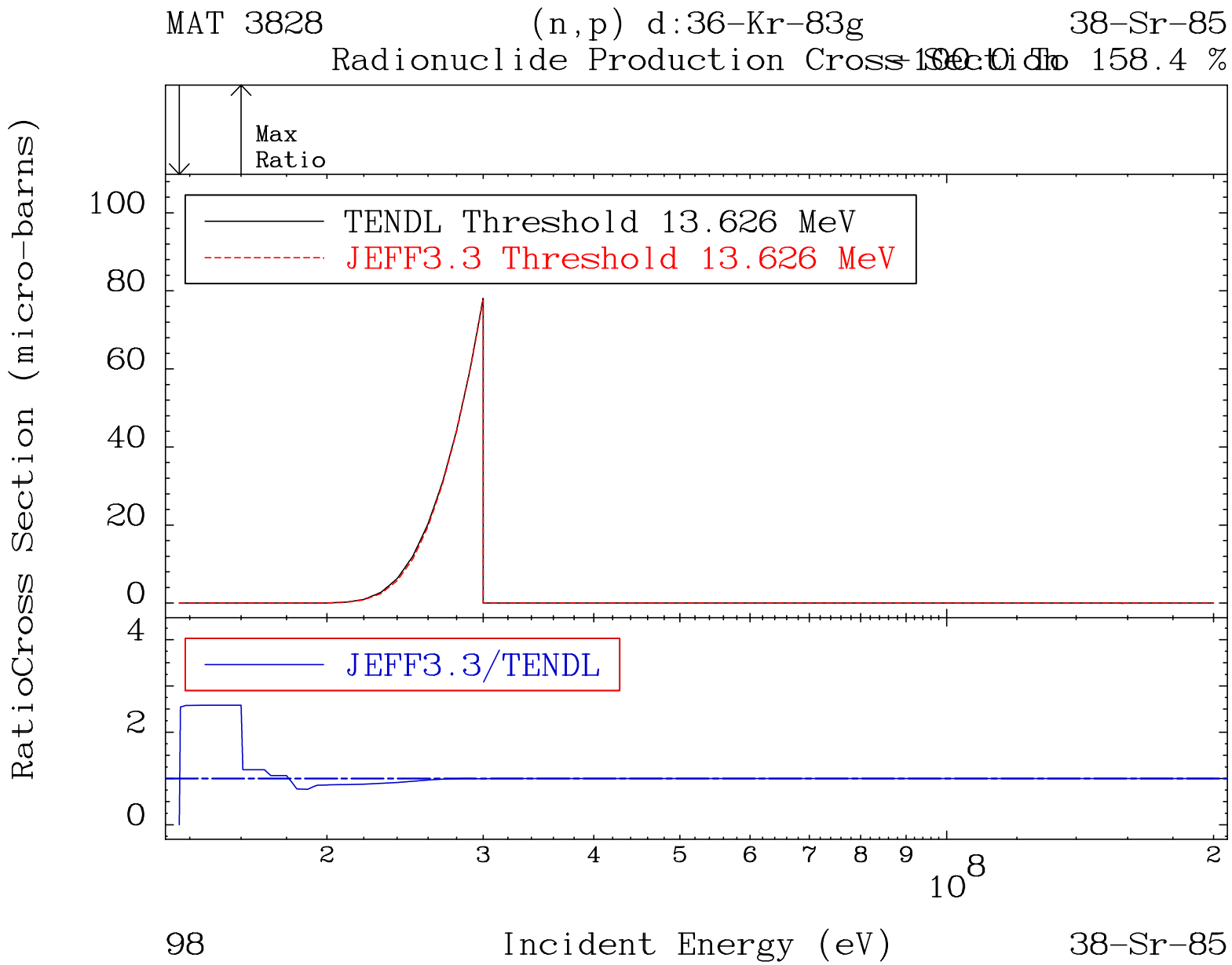

MAT 3828
(n,n') p α:35-Br-80m2
38-Sr-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.192 MeV
JEFF3.3 Threshold 15.192 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
93
38-Sr-85

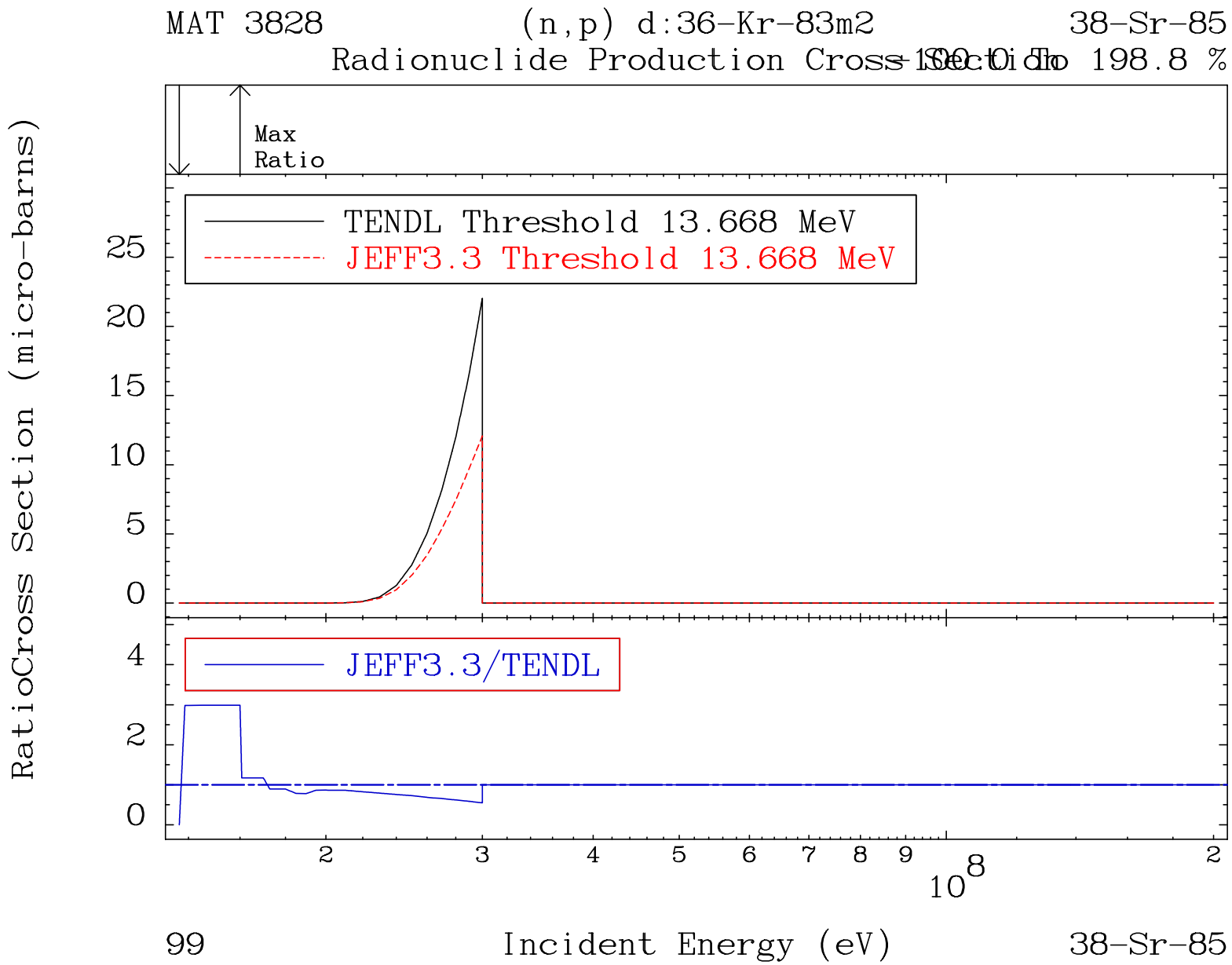

MAT 3828
(n,d):37-Rb-84g
38-Sr-85
Radionuclide Production Cross Section
To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 6.4848 MeV
JEFF3.3 Threshold 6.4848 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
0.8
0.4
7 8 10^7 2 3 4 5 6 7 8 10^8 2
94
Incident Energy (eV)
38-Sr-85

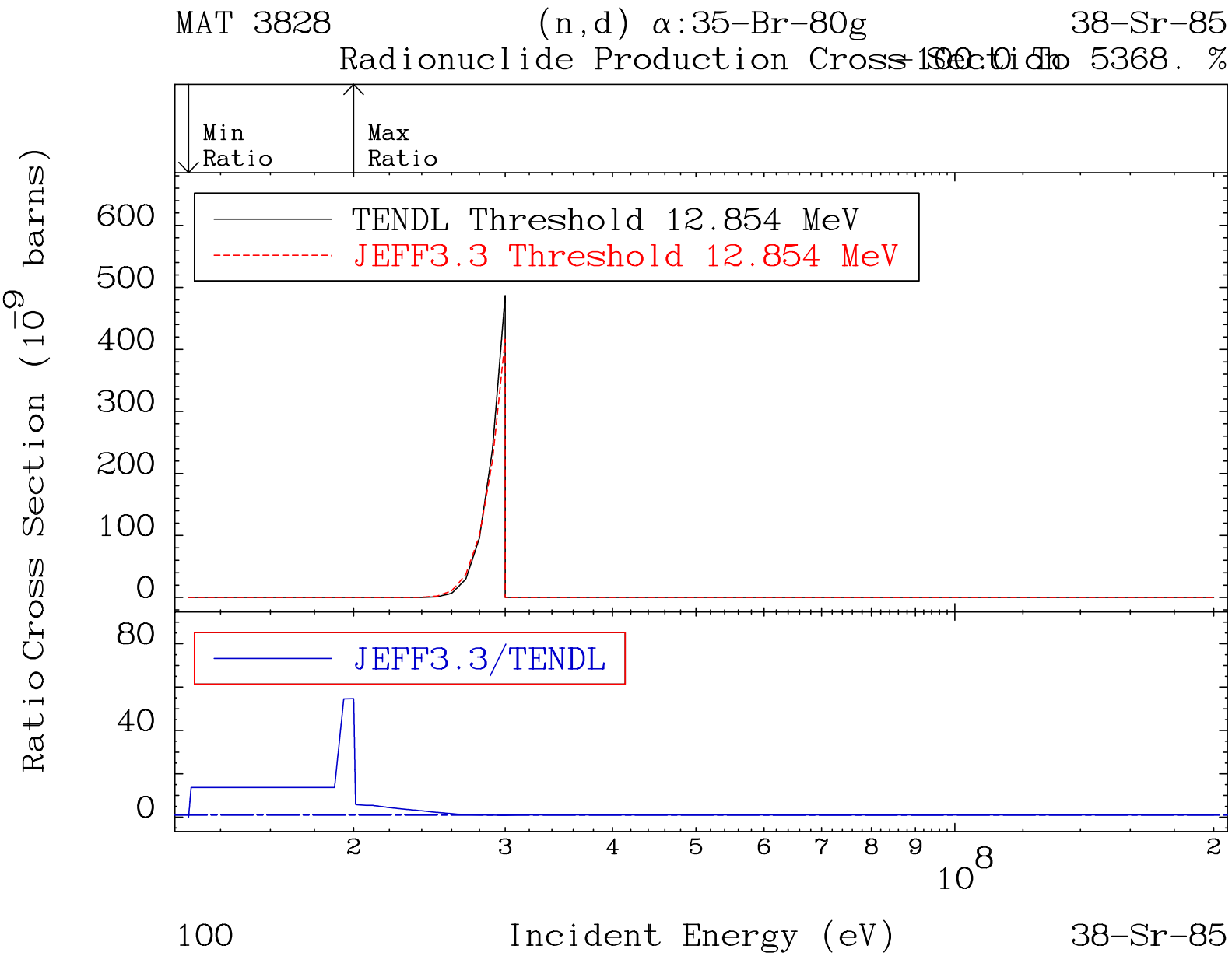

MAT 3828
(n,d):37-Rb-84m2
38-Sr-85
Radionuclide Production Cross Section To 7.807 %
Min Ratio
Max Ratio
TENDL Threshold 7.4000 MeV
JEFF3.3 Threshold 7.4000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
1.0
0.8
0.6
8
2
3
4
5
6
7
8
2
10^7
10^8
95
Incident Energy (eV)
38-Sr-85

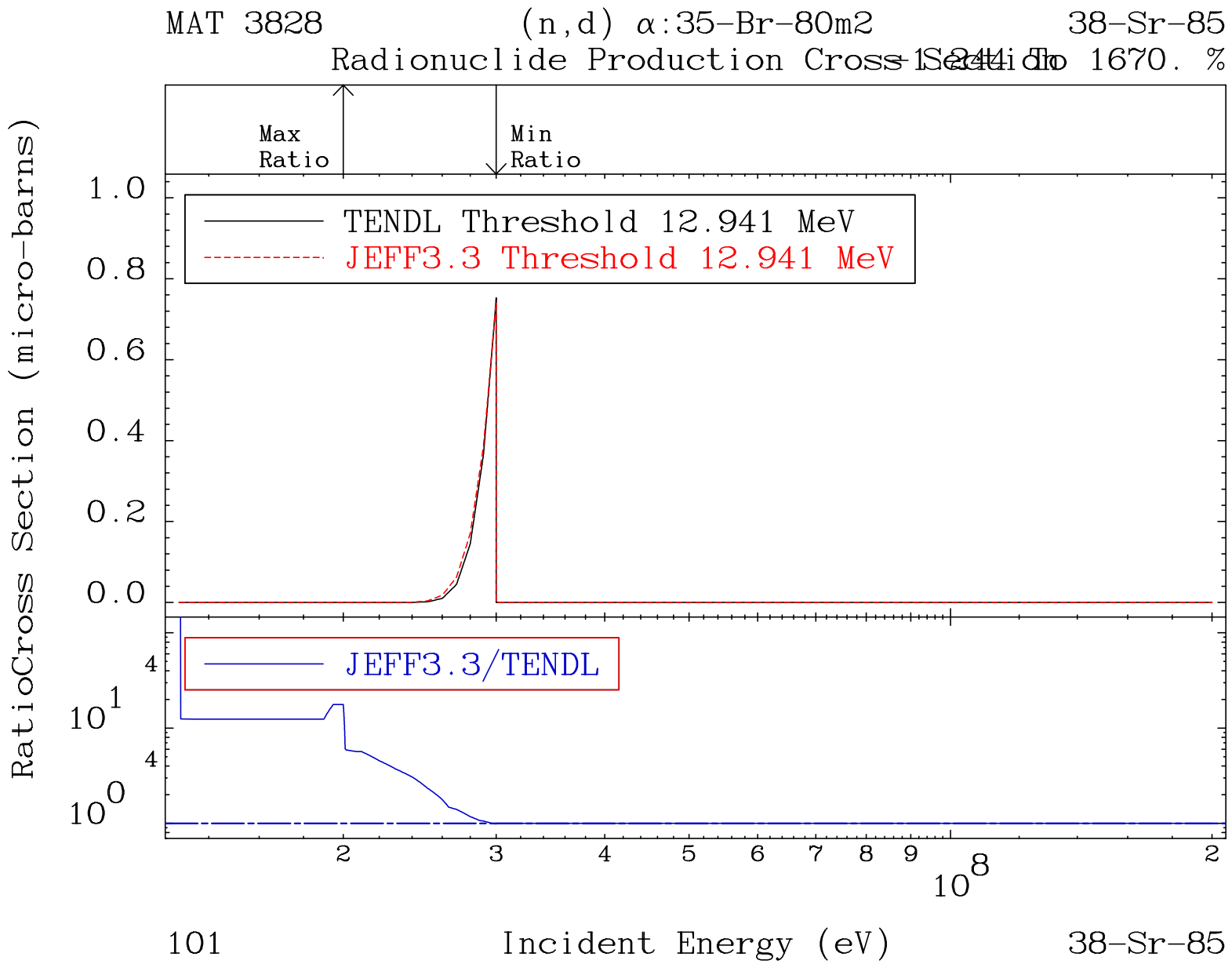

MAT 3828
(n,He-3):36-Kr-83g
38-Sr-85
Radionuclide Production Cross Section To
Min Ratio
Max Ratio
TENDL Threshold 8.0673 MeV
JEFF3.3 Threshold 8.0673 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,He-3):36-Kr-83m2
38-Sr-85
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.1093 MeV
JEFF3.3 Threshold 8.1093 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
1.2
0.6
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
97
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,p) d:36-Kr-83g
38-Sr-85
Radionuclide Production Cross Section To 158.4 %
Max
Ratio
TENDL Threshold 13.626 MeV
JEFF3.3 Threshold 13.626 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
100
80
60
40
20
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,p) d:36-Kr-83m2
38-Sr-85
Radionuclide Production Cross Section To 198.8 %
Max
Ratio
TENDL Threshold 13.668 MeV
JEFF3.3 Threshold 13.668 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
25
20
15
10
5
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,d) α:35-Br-80g
38-Sr-85
Radionuclide Production Cross Section To 5368. %
Min Ratio
Max Ratio
TENDL Threshold 12.854 MeV
JEFF3.3 Threshold 12.854 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
600
500
400
300
200
100
0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
100
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,d) α:35-Br-80m2
38-Sr-85
Radionuclide Production Cross Section To 1670. %
Max Ratio
Min Ratio
TENDL Threshold 12.941 MeV
JEFF3.3 Threshold 12.941 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
10^1
10^0
2
3
4
5
6
7
8
9
10^8
101
Incident Energy (eV)
38-Sr-85